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THIRTY-FIFTH ANNUAL REPORT

OF THE

SECRETARY OF STATE

ON THE

REGISTRATION

OF

BIRTHS AND DEATHS

MARRIAGES AND DIVORCES

IN

MICHIGAN

FOR THE YEAR 1901

FRED M. WARNER

SECRETARY OF STATE

EDITED BY

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LETTER OF TRANSMITTAL.

STATE DEPARTMENT,
Lansing, Michigan, December 24, 1904.

To His Excellency, Aaron T. Bliss, *Governor:*

Sir—I hereby transmit the Thirty-fifth Annual Registration Report of Michigan, containing statistics of births and deaths, marriages and divorces in this State during the year 1901, as required by law.

Respectfully,
FRED M. WARNER,
Secretary of State.

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THIRTY-FIFTH ANNUAL

REGISTRATION REPORT OF MICHIGAN

CONTAINING VITAL STATISTICS FOR THE YEAR 1901.

PART I.—VITAL STATISTICS AND POPULATION, 1901.

In this part of the report an effort has been made to present information and data sufficient to give a general idea of the scope and results of registration in Michigan during the year 1901, and which will serve as an introduction to the more detailed study of the statistics in the divisions following.

This is the fourth report issued from this Department since the operation of the new registration law for deaths, which went into effect August twenty-ninth, 1897, and as the law has been longer in operation, and hence more widely and better understood, it is probable that a somewhat higher degree of accuracy in returns has been attained than in the earlier years of its operation.

A change from previous reports has been made with this issue in the matter of compilation of stillbirths. While stillbirths are required to be registered in the same way as deaths from any other cause, they are not, as formerly, included in the statement of total deaths, and will be treated as an entirely separate item. This is in accordance with modern statistical practice and corresponds to a similar change in the mortality statistics of the United States census.

VITAL STATISTICS RETURNED FOR 1901.

In the following summary will be found some of the principal facts relating to returns of vital statistics in the State for the year 1901:

Total number of deaths, 1901	32,834
Deaths per 1,000 population, 1901	13.4
Total number of marriages, 1901	24,079
Persons married, 1901	48,158
Persons married per 1,000 population, 1901	19.6
Total number of divorces, 1901	2,448
Persons divorced per 1,000 population, 1901	2.0
Total number of births, 1901	43,221
Births per 1,000 population, 1901	17.6

As stated in the report for last year, the Michigan law for the collection of births is the antiquated measure of 1867, providing for the enumeration by supervisors and assessors. It is so grossly defective, as compared with the registration law for deaths, that the usual comparison of births and deaths, their difference constituting what is known as

In Table 2 estimated populations are given for intercensal and post-censal years since the institution of registration in this State, April fifth, 1867, by whose aid the death rates, marriage rates and birth rates may be computed for each year.

It will be of especial interest to note the large increase in the number of deaths returned for each of the years 1898-1901, as compared with any of the preceding years of registration. There were probably no more deaths, in proportion to the population, during these latter years than during the period 1867-97, but approximately *all* of the deaths which have occurred in the State since 1898 have been placed on record, while under the old system of enumeration by supervisors and assessors probably not to exceed two-thirds of the deaths that actually occurred were recorded. Hence no accurate or reliable comparisons can be made between the number returned for the years 1898-1901 with the imperfect records of the preceding years.

The number of births returned for the year, 43,221, showed a falling off as compared with the preceding years of registration, and, with one exception, that for the year 1899, is the smallest number recorded since 1887. This, too, not considering the increase in population. However, as explained heretofore, the figures thus given for births are not very reliable, and the decrease above noted may be due to irregularities of enumeration.

The death rate per 1,000 population for 1901, 13.4, was precisely the same as for the preceding year, and, barring the year 1898 which certainly had a phenomenally low mortality, is about the usual or normal death rate for this State.

According to the returns the number of marriages recorded in 1901, 24,079, shows about the usual yearly increase in proportion to the increase of population, and is directly comparable with recent years of registration.

Table 3.—Persons married per 1,000 living population in certain countries and states during the years 1887-190 .

Country or state.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.
Austria	15.8	16.0	15.1	15.1	15.6	15.6	15.9	15.8	16.2	15.9	16.2	15.7	16.5	16.5	16.4
Belgium	14.2	14.2	14.5	14.5	14.8	15.4	15.2	15.1	15.5	16.2	16.4	16.6	16.5	17.2	16.6
Denmark	14.0	14.2	14.2	13.8	13.6	13.5	14.0	13.8	14.1	14.5	14.9	15.1	15.0	15.3	14.4
France	14.5	14.4	14.2	14.0	14.9	15.1	14.9	14.9	14.7	15.1	15.1	14.8	15.3	15.5	15.6
German Empire	15 6	15.6	16.0	16.1	16.1	15.9	15.8	15.9	15.9	16.4	16.7	16.9	17.1	17.0	16.5
Prussia	16.0	16.0	16.3	16.4	16.3	16.1	16.1	16.1	16.0	16.5	16.8	16.9	17.0	17.1	16.6
Holland	14.0	13.8	13.9	14.2	14.2	14.4	14.6	14.4	14.7	14.9	14.8	14.6	14.9	15.2	15.4
Hungary	18.0	18.7	16.3	16.4	17.2	18.4	18.7	18.5	17.0	16.1	16.3	16.7	18.0	17.7	17.4
Italy	15.9	15.9	15.3	14.7	15.0	14.9	14.8	14.9	14.6	14.1	14.4	13.8	14.7	14.4	14.5
Japan	17.1	16.7	17.0	16.1	16.0	17.0	17.3	17.3	17.3	23.5	16.9	21.5	13.4	15.4	16.7
New South Wales	15.1	15.1	14.1	14.3	14.8	13.6	12.9	12.5	12 8	13.3	13.5	13.4	13.8	14.8	15.4
New Zealand	12.0	12.0	11.9	12.2	12.1	12.5	12.4	12.3	11.9	13.7	13.7	13.8	14.6	15.3	15.0
Norway	12.5	12.2	12.5	13.0	13.2	12.7	12.9	12.8	13.0	13.4	13.4	14.0	14.3	13.8	13.4
Sweden	12.5	11.8	12.0	12.0	11.7	11.4	11.3	11 5	11.7	11.9	12.1	12.3	12.5	12.3	12.1
Switzerland	14.2	14.2	14.1	14.0	14.2	14.4	14.3	14.3	14.5	15.0	15.6	15.5	15.5	15.5	15.2
United Kingdom	13.5	13.5	14.1	14.5	14.6	14.5	13.9	14.2	14.3	15.0	15.2	15.4	15.6	15.1	15.1
England and Wales	14.4	14.4	15.0	15.5	15.6	15.4	14.7	15.0	15.0	15.7	16.0	16.2	16.5	16.0	15.9
Ireland	8.6	8.4	9.0	8.9	9.2	9.3	9.4	9.4	10.1	10.1	10.1	10.0	9.9	9.5	10.2
Scotland	12.7	12.8	13.3	13.7	13.9	14.1	13.2	13.3	13.5	14.2	14.4	14.8	15.0	14.6	14.0
United States:															
Massachusetts	19.0	18.2	18.8	18.6	18.9	19.2	19.1	16.9	18.5	18.1	17.6	16.5	17.2	17.4	17.3
Michigan	17.4	17.2	17.8	17.8	18.1	18.6	17.4	16.3	16.7	16.4	15.9	17.1	*18.3	*19.2	*19.6
Rhode Island	18.0	18.7	17.3	18.4	18.5	19.1	18.7	17.4	18.2	17.0	15.6	15.8	16.2	18.4	17.6

* Returns vitiated by "excursion marriage" industry. Since 1896 the marriages recorded no longer relate exclusively to the inhabitants of Michigan.

MICHIGAN VITAL STATISTICS COMPARED WITH THOSE OF OTHER STATES AND COUNTRIES.

As stated in the last report the significance of the vital rates of any state or country cannot be fully known until comparisons have been made with those of others. While the crude marriage, birth and death rates are not sufficient for the formation of absolutely reliable conclusions relative to the exact intensity of the marriage movement, or of the fecundity or sanitary conditions of the populations so measured, nevertheless the crude rates, taken without correction for dissimilar constitution of the population, must always form the first step in the comparative study of vital statistics.

Table 4.—Births registered per 1,000 living population in certain countries and states during the years 1887-1901. (Stillbirths excluded.)

Country or state.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.
Austria	38.2	37.9	37.9	36.7	37.0	36.2	37.9	26.7	38.1	38.0	37.5	36.2	37.1	37.3	36.9
Belgium	29.4	29.1	29.5	28.7	29.6	28.9	29.5	29.0	28.5	29.0	29.0	28.6	28.8	28.9	29.4
Denmark	32.0	31.7	31.3	30.6	30.9	29.5	30.5	30.1	30.0	30.3	29.7	30.2	29.8	29.8	29.9
France	23.5	23.1	23.0	21.8	22.6	22.3	22.8	22.3	21.7	22.5	22.3	21.8	21.9	21.4	22.0
German Empire	36.9	36.6	36.4	35.7	37.0	35.7	36.8	35.9	36.1	36.3	36.0	36.1	35.8	35.6	35.7
Prussia	37.7	37.4	37.1	36.6	37.7	36.3	37.5	36.6	36.9	36.9	36.5	36.7	36.3	36.1	36.2
Holland	33.7	33.7	33.2	32.9	33.7	32.0	33.8	32.7	32.8	32.7	32.5	31.9	32.0	31.5	32.3
Hungary	44.2	43.8	43.7	40.3	42.3	40.4	42.6	41.5	41.8	40.5	40.3	37.7	39.3	39.3	37.8
Italy	38.9	37.5	38.3	35.8	37.2	36.2	36.5	35.5	34.9	34.8	34.7	33.5	33.9	33.0	32.6
Japan	27.6	30.0	31.1	28.8	26.7	29.4	28.5	28.9	29.5	30.0	30.9	31.3	31.4	31.4	32.7
New South Wales	37.1	37.2	35.0	35.4	34.5	34.0	33.5	31.6	31.0	28.6	28.7	27.4	27.1	27.4	27.6
New Zealand	32.1	31.2	30.1	29.4	29.0	27.8	27.5	27.3	26.8	26.3	26.0	25.7	25.1	25.6	26.3
Norway	30.8	30.8	29.7	30.3	30.9	29.6	30.7	29.8	30.6	30.4	30.0	30.3	30.9	30.1	29.8
Sweden	29.7	28.8	27.7	28.0	28.3	27.0	27.4	27.1	27.5	27.2	26.7	27.1	26.4	27.0	26.8
Switzerland	28.0	27.8	27.6	26.4	27.8	27.4	27.7	27.1	27.1	27.9	28.1	28.4	28.9	28.6	29.1
United Kingdom	30.7	30.1	30.0	29.2	30.4	29.5	29.8	28.8	29.4	29.0	28.9	28.7	28.5	28.2	28.0
England and Wales	31.9	31.2	31.1	30.2	31.4	30.4	30.7	29.6	30.3	29.6	29.6	29.3	29.1	28.7	28.5
Ireland	23.1	22.8	22.7	22.3	23.1	22.5	23.0	23.0	23.3	23.7	23.5	23.3	23.1	22.7	22.7
Scotland	31.7	31.3	30.9	30.4	31.2	30.7	30.8	29.9	30.0	30.4	30.0	30.1	29.8	29.6	29.5
United States*	.....	.....	.....	26.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	27.2	.....
Connecticut	22.8	22.2	23.4	23.3	24.8	24.7	25.4	24.9	24.4	24.9	23.3	23.5	22.6	22.6	22.3
Massachusetts	25.9	26.0	26.2	25.8	27.5	28.1	28.1	27.4	27.0	28.3	28.0	27.3	25.7	26.2	25.1
Michigan	21.1	20.3	21.3	19.8	20.8	20.9	21.2	19.4	19.9	19.6	18.3	18.2	17.2	17.8	17.5
New Jersey	21.4	22.0	20.8	20.9	19.5	20.3	21.0	21.3	19.0	18.2	18.0	18.0	15.8	17.1	18.0
Rhode Island	24.2	24.2	24.1	24.7	26.5	25.2	26.5	26.6	25.7	27.3	26.8	25.9	25.6	25.9	25.8

* Imperfect data.

In Tables 3, 4 and 5, corrected according to the international statistics published in the last report of the Registrar-General of England, will be found data by means of which the vital rates of Michigan for the past fifteen years may be compared with those of various European countries, and with certain states in this country, as well as with those of New Zealand and New South Wales, representative of the vital statistics of Australia. Some statistics for Japan have also been added from the reports of the Imperial Bureau of Statistics of that country, and are of especial interest as comparing the movement of population of an oriental country with the American, the European and Australasian data.

Table 5.—Deaths registered per 1,000 living population in certain countries and states during the years 1887-1901. (Stillbirths excluded.)

Country or state.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.
Austria	28.9	29.2	27.3	29.4	28.2	28.8	27.2	27.8	27.7	26.4	25.6	24.9	25.4	25.4	24.2
Belgium	19.3	20.1	19.1	20.6	21.0	21.8	20.3	18.6	19.5	17.5	17.2	17.6	18.8	19.3	17.1
Denmark	18.3	19.7	18.6	19.0	20.0	19.4	18.8	17.4	16.8	15.6	16.5	15.5	17.3	16.9	15.8
France	22.0	21.9	20.7	22.8	22.9	22.8	22.5	21.2	22.2	20.0	19.5	20.9	21.1	21.9	20.1
German Empire	24.2	23.7	23.7	24.4	23.4	24.1	24.6	22.3	22.1	20.8	21.3	20.5	21.5	22.1	20.7
Prussia	23.8	22.8	23.2	24.0	22.9	23.4	24.2	21.8	21.8	20.7	20.9	20.0	21.4	21.8	20.5
Holland	19.7	20.4	20.1	20.5	20.7	21.0	19.2	18.5	18.6	17.2	16.9	17.0	17.1	17.8	17.2
Hungary	33.8	32.0	29.9	32.4	33.1	35.1	31.2	30.5	29.7	28.9	28.5	28.0	27.2	26.9	25.4
Italy	28.0	27.5	25.6	26.3	26.1	26.2	25.2	25.0	25.0	24.1	21.9	22.9	21.9	23.8	22.0
Japan	19.3	19.9	20.2	20.4	21.0	21.6	22.7	20.1	20.2	21.4	20.3	20.4	21.1	20.3	20.3
New South Wales	13.4	13.9	13.9	12.9	14.3	12.2	13.3	12.3	11.9	12.4	11.0	12.6	11.8	11.2	11.6
New Zealand	10.3	9.4	9.4	9.7	10.4	10.1	10.2	10.2	9.9	9.1	9.1	9.8	10.2	9.4	9.8
Norway	16.0	16.9	17.4	17.9	17.5	17.8	16.3	16.9	15.7	15.2	15.3	15.3	16.9	15.9	14.9
Sweden	16.1	16.0	16.0	17.1	16.8	17.9	16.8	16.4	15.2	15.6	15.4	15.1	17.7	16.8	16.0
Switzerland	20.3	20.0	20.3	20.8	20.4	18.8	19.9	19.9	19.1	17.7	17.6	18.2	17.6	19.3	18.0
United Kingdom	19.0	18.1	18.1	19.4	20.0	19.0	19.0	16.8	18.7	16.9	17.6	17.7	18.2	18.4	17.1
England and Wales	19.1	18.1	18.2	19.5	20.2	19.0	19.2	16.6	18.7	17.1	17.4	17.5	18.2	18.2	16.9
Ireland	18.2	17.9	17.4	18.2	18.4	19.4	18.0	18.2	18.5	16.7	18.5	18.2	17.7	19.6	17.8
Scotland	19.0	18.0	18.4	19.7	20.7	18.5	19.3	17.1	19.4	16.6	18.4	18.0	18.1	18.5	17.9
United States*	.....	.....	.....	19.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	17.8	.....
Connecticut	17.0	17.1	17.0	18.3	19.2	19.0	18.6	16.8	17.8	17.5	15.7	15.8	15.7	18.0	16.2
Massachusetts	19.8	19.9	19.2	19.4	19.7	20.9	20.5	19.1	19.0	19.3	18.1	17.5	17.4	18.2	16.8
Michigan	9.4	10.1	9.3	9.7	9.9	9.6	9.5	8.9	9.5	9.0	8.2	†12.0	13.6	13.4	13.4
New Jersey	19.0	17.0	19.0	19.8	19.5	21.6	19.9	19.1	18.3	17.9	16.9	15.1	16.7	16.7	16.5
Rhode Island	19.9	20.4	19.0	20.1	18.6	20.1	19.6	19.1	19.6	19.1	17.6	16.7	17.6	20.6	18.2

* Registration area only.
† New registration law for deaths in effect in Michigan for 1898.

RETURNS COMPARED WITH POPULATION, BY COUNTIES, 1901.

In Table 6 estimated populations are given for each of the counties of the State for the year 1901. In estimating populations what is known as the "arithmetical method" has been employed; in fact, this method has been used in this State for the estimation of populations for intercensal and postcensal years, both for the *Michigan Monthly Bulletin of Vital Statistics* and for the annual registration reports ever since any systematic methods of estimating populations have been made use of. While all methods of estimating populations are more or less liable to error, especially when there are long intervals between census enumerations, investigation has proven that the arithmetical method accords more closely with the actual enumerated results than any other method, while at the same time it is readily applied, and is one of the most simple methods.

In this table the number of deaths, marriages, births and divorces registered are given for the State and for individual counties, together with the corresponding rates per 1,000 estimated population for the year. It will be noted, however, that the marriage and divorce rates are stated as *persons married* and *persons divorced*, instead of as so many marriages and divorces per 1,000 population. In comparing the vital rates of the different counties, it is important to consider the age distribution of the population. As the greatest number of deaths, relatively speaking, occurs in the age periods under five years and over sixty-five years of age, it follows that the counties having proportionally the greatest population covered by these ages will also show the greatest number of deaths.

To obtain an exact basis for marriage rates, the persons married should be compared with the number of unmarried persons of marriageable age in the population. In like manner, divorce rates should be based on the number of married persons in the population affording them. It should be borne in mind, however, in studying this table, that the number of divorces for any stated year cannot be compared directly with the number of marriages in the same year, owing to the fact that the divorces granted are the outcome of marriages performed some years prior. While births are obtained in the same manner throughout the State, namely, by enumeration by supervisors or assessors, the rates based thereon are not only not reliable as compared with other vital rates, but comparisons between the different counties should not be given too much credence, as the supervisors of some counties may make more complete and accurate enumerations than those of other counties, especially than those in counties having sparsely settled populations. While such rates as are given in these tables are necessary and form the first step in any statistical investigation of this character, the above statements are given so that conclusions based upon these rates will not be accepted as absolutely reliable, until they have been fully analyzed and investigated.

Prior to 1901 quite a large number of districts were exempt from the law requiring the immediate registration of deaths, but in the early part of this year the law was so amended as to bring the entire State under the operation of the registration law.

The death rates for the individual counties do not, as a rule, vary very widely from the State average of 13.4 per 1,000 population. Especially is this uniformity noticeable in those counties recently brought under the operation of the registration law by the extension of the law to cover the entire State. Oscoda has the lowest rate for the State, 4.2 per 1,000 estimated population, and is the only county that varies to any very considerable degree from the general State average.

The returns of marriages from Berrien county are greatly increased by means of the famous St. Joseph marriage industry, which has come to be recognized as a characteristic feature of the marriage statistics of Michigan. The rate for the county thus obtained as shown by this table, [illegible] is not, therefore, comparable with other county marriage rates, and the general marriage rate of the State is somewhat affected by this [illegible]

Table 6.—Deaths, marriages, divorces and births in Michigan by counties, for the year 1901, with rates per 1,000 estimated population. (Stillbirths included in births and excluded from deaths.)

State and counties.	Estimated population of Michigan, June, 1901.*	Number of deaths registered, 1901.	Number of marriages registered, 1901.	Number of divorces granted, 1901.	Number of births registered 1901.	Rates per 1,000 population, 1901.			
						Deaths.	Persons married.	Persons divorced.	Births.
STATE	2,450,872	32,834	24,079	2,448	43,221	13.4	19.6	2.0	17.6
Alcona	5,737	63	43	1	81	11.0	15.0	0.2	14.1
Alger	6,615	48	39	6	101	7.3	11.8	1.8	15.3
Allegan	38,749	496	302	33	574	12.8	15.6	1.7	14.8
Alpena	18,343	210	160	8	472	11.4	17.4	0.9	25.7
Antrim	17,258	209	175	15	219	12.1	20.3	1.7	12.7
Arenac	10,301	120	101	1	200	11.6	19.6	0.2	19.4
Baraga	4,335	60	31	1	104	13.8	14.3	0.5	24.0
Barry	22,317	267	219	37	319	12.0	19.6	3.3	14.3
Bay	62,557	782	560	40	1,362	12.5	17.9	1.3	21.8
Benzie	9,955	136	87	14	219	13.7	17.5	2.8	22.0
Berrien	49,753	659	† 1,490	57	572	13.2	† 59.9	2.3	11.5
Branch	28,078	381	298	30	337	13.6	21.2	2.1	12.0
Calhoun	49,622	736	493	83	623	14.8	19.9	3.3	12.6
Cass	20,826	269	201	31	235	12.9	19.3	3.0	11.3
Charlevoix	14,423	176	130	10	247	12.2	18.0	1.4	17.1
Cheboygan	15,785	201	143	14	291	12.7	18.1	1.8	18.4
Chippewa	22,341	313	271	13	399	14.0	24.3	1.2	17.9
Clare	8,424	90	83	9	160	10.7	19.7	2.1	19.0
Clinton	24,948	337	243	22	371	13.5	19.5	1.8	14.9
Crawford	2,982	26	27	2	36	8.7	18.1	1.3	12.1
Delta	24,651	297	239	11	656	12.0	19.4	0.9	26.6
Dickinson	18,422	253	214	8	618	13.7	23.2	0.9	33.5
Eaton	31,508	403	357	60	385	12.8	22.7	3.8	12.2
Emmet	16,771	214	188	20	271	12.8	22.4	2.4	16.2
Genesee	42,013	572	401	61	471	13.6	19.1	2.9	11.2
Gladwin	6,841	63	68	6	166	9.2	19.9	1.8	24.3
Gogebic	17,180	257	221	5	558	15.0	25.7	0.6	32.5
Grand Traverse	20,973	342	229	32	285	16.3	21.8	3.1	13.6
Gratiot	30,075	361	331	35	379	12.0	22.0	2.3	12.6
Hillsdale	29,797	422	317	41	312	14.2	21.3	2.8	10.5
Houghton	69,711	892	757	14	2,682	12.8	21.7	0.4	38.5
Huron	34,480	373	265	14	818	10.8	15.4	0.8	23.7
Ingham	39,840	542	395	27	431	13.6	19.8	1.4	10.8
Ionia	34,247	464	382	42	408	13.5	22.3	2.5	11.9
Iosco	9,897	135	71	4	224	13.6	14.3	0.8	22.6
Iron	9,606	105	81	5	215	10.9	16.9	1.0	22.4
Isabella	23,008	243	218	25	455	10.6	18.9	2.2	19.8
Jackson	48,503	615	508	83	696	12.7	20.9	3.4	14.3
Kalamazoo	44,686	740	495	90	557	16.6	22.2	4.0	12.5
Kalkaska	7,382	88	78	16	116	11.9	21.1	4.3	15.7
Kent	131,010	1,769	1,398	190	1,924	13.5	21.3	2.9	14.7
Keweenaw	3,286	41	25	17	107	12.5	15.2	10.3	32.6
Lake	4,800	58	50	5	100	12.1	20.8	2.1	20.8
Lapeer	27,435	415	276	23	342	15.1	20.1	1.7	12.5
Leelanau	10,720	122	79	6	159	11.4	14.7	1.1	14.8
Lenawee	48,384	704	423	61	565	14.6	17.5	2.5	11.7
Livingston	19,535	252	163	15	237	12.9	16.7	1.5	12.1
Luce	3,089	43	34	3	74	13.9	22.0	1.9	24.0
Mackinac	7,781	82	73	2	121	10.5	18.8	0.5	15.6
Macomb	33,387	483	265	29	468	14.5	15.9	1.7	14.0
Manistee	28,146	305	207	15	470	10.8	14.7	1.1	16.7
Marquette	41,776	507	366	8	1,429	12.1	17.5	0.4	34.2
Mason	18,962	255	157	10	376	13.4	16.6	1.1	19.8
Mecosta	20,687	275	174	18	332	13.3	16.8	1.7	15.0
Menominee	27,596	294	322	8	585	10.7	23.3	0.6	21.2

* Population estimated by average annual increase as shown by State census of 1900 over U. S. census of 1894. Where counties have made unusually rapid growth since the last census, the estimates of population cannot be depended upon, nor are the rates based thereon reliable.

† This includes many marriages of residents of Chicago during the summer excursion season.

Table 6.—Concluded.—Deaths, marriages, divorces and births in Michigan by counties, for the year 1901, with rates per 1,000 estimated population.

Counties.	Estimated population of Michigan, June, 1901.*	Number of deaths registered, 1901.	Number of marriages registered, 1901.	Number of divorces granted, 1901.	Number of births registered, 1901.	Rates per 1,000 population, 1901.			
						Deaths.	Persons married.	Persons divorced.	Births.
Midland.....	14,643	193	125	8	252	13.2	17.1	1.1	17.2
Missaukee.....	9,700	86	84	10	220	8.9	17.3	2.1	22.7
Monroe.....	32,683	418	410	22	543	12.8	25.1	1.3	16.6
Montcalm.....	32,520	419	308	37	442	12.9	18.9	2.3	13.6
Montmorency.	3,367	32	26	6	32	9.5	15.4	3.6	9.5
Muskegon.....	36,988	446	334	44	691	12.1	18.1	2.4	18.7
Newaygo.....	17,431	209	161	23	225	12.0	18.5	2.6	12.9
Oakland.....	45,145	664	298	35	540	14.7	13.2	1.6	12.0
Oceana.....	16,652	211	146	27	276	12.7	17.5	3.2	16.6
Ogemaw	8,120	99	69	3	113	12.2	17.0	0.7	13.9
Ontonagon....	6,084	83	51	4	173	13.6	16.8	1.3	28.4
Osceola.....	18,090	185	170	17	334	10.2	18.8	1.9	18.5
Oscoda.....	1,412	6	12	1	21	4.2	17.0	1.4	14.9
Otsego	6,405	83	73	0	121	13.0	22.8	0.0	18.9
Ottawa.....	39,764	487	362	15	718	12.2	18.2	0.8	18.1
Presque Isle..	9,306	108	80	5	227	11.6	17.2	1.1	24.4
Roscommon...	1,809	27	13	7	40	14.9	14.4	7.7	22.1
Saginaw	81,118	1,091	804	96	1,636	13.4	19.8	2.4	20.2
St. Clair.....	55,379	770	483	54	871	13.9	17.4	2.0	15.7
St. Joseph....	23,689	356	183	29	286	15.0	15.5	2.4	12.1
Sanilac.....	35,240	349	296	10	710	9.9	16.8	0.6	20.1
Schoolcraft...	8,016	113	83	6	193	14.1	20.7	1.5	24.1
Shiawassee...	34,035	457	351	57	417	13.4	20.6	3.3	12.3
Tuscola.....	36,136	509	316	31	548	14.1	17.5	1.7	15.2
Van Buren....	33,643	495	332	44	391	14.7	19.7	2.6	11.6
Washtenaw...	48,470	655	340	45	516	13.5	14.0	1.9	10.6
Wayne.....	358,182	5,503	3,066	350	7,439	15.4	17.1	2.0	20.8
Wexford.....	17,311	215	180	26	332	12.4	20.8	3.0	19.2

* Population estimated by average annual increase as shown by State census of 1900 over U. S. census of 1894. Where counties have made unusually rapid growth since the last census, the estimates of population cannot be depended upon, nor are the rates based thereon reliable.

COMPARISON OF RETURNS FOR THE YEARS 1900-1901.

In Table 7 the deaths, marriages, divorces and births, as returned to this Department, are given for the year, together with the corresponding items for 1900; also the increase or decrease of returns for 1901 as compared with those for 1900.

In deaths, the returns show an increase of 281 for the year over the number returned for the preceding year. The counties showing increases or decreases were quite evenly divided, 44 of the number showing an increase, two showing neither increase or decrease.

The number of marriages increased only 784 over 1900, the increase in Berrien county being only 42, as compared with an increase for this county of 371 for 1900 over 1899. There were 51 counties that showed an increase over the previous year, while the county of Montmorency showed neither increase nor decrease. Wayne and Kent, as might be expected, showed the largest amounts of increase, the former showing an excess of 136 over 1900 and the latter 190.

Divorces for 1901 increased but slightly over the number returned for the year 1900, the increase amounting to only 13. In this connection, it may be noted that there were 2,449 divorces granted during the year, while only 47 were refused. There were 3,883 bills filed during the year;

thus the per cent of divorces granted during the year to the number of bills filed during the year was 63.1, and while some of the divorces granted were from cases begun in previous years, and many cases begun went over for action to the following year, the ratio would seem to be a useful one, and more reliable than the ratio of divorces granted to cases pending, as a basis for determining the proportion of divorce suits that end in divorce.

According to statements received at this Department from county clerks, there were 3,907 bills for divorce pending in the courts of this State on January 1,. 1901. The number of new bills filed during the year, as stated above, was 3,883, making a total of 7,790 cases under consideration by the courts during the year.

Taking this number as the aggregate number of cases before the courts, then the number granted would constitute 31.4 per cent of the total number of petitions. Such a comparison as the above, however, should be taken only as a very general one.

Relative to the returns of births as shown in this table, attention should again be called to the absolute unreliability of any figures showing returns of births in this State. According to the figures shown in this table, there was a decrease, 478, for 1901 from the number returned for the preceding year.

That this decrease, however, was only apparent and not real is likely to be true. The county of Wayne alone shows an apparent decrease of 882, which seems very improbable, especially when we consider the large increase of population. It would, indeed, be very desirable that these statistics of births should be collected in such a way that they might be reasonably accurate, and the conclusions drawn from them would then be acceptable without making the usual large discount for imperfect returns.

[illegible] marriages, divorces and births in Michigan, by counties, for the years 1900-1901; showing also the increase (or decrease) of [illegible] in Michigan for 1901 as compared with that of the preceding year. (Stillbirths included in births and excluded from deaths.)

	Deaths.*			Marriages.			Divorces.			Births.*		
	Number in 1901.	Number in 1900.	Increase or decrease.	Number in 1901.	Number in 1900.	Increase or decrease.†	Number in 1901.	Number in 1900.	Increase or decrease.	Number in 1901.	Number in 1900.	Increase or decrease.
[illegible]	32,834	32,553	281	24,079	23,295	784	2,448	2,435	13	43,221	43,699	−478
[illegible]	63	44	19	43	36	7	1	2	−1	81	110	−29
[illegible]	48	68	−20	39	65	−26	6	5	1	101	117	−16
[illegible]	496	433	63	302	312	−10	33	43	−10	574	634	−60
[illegible]	210	266	56	160	188	−28	8	8	0	472	471	1
[illegible]	209	267	−58	175	172	3	15	22	−7	219	198	21
[illegible]	120	117	3	101	96	5	1	5	−4	200	199	1
[illegible]	60	34	26	31	44	−13	1	0	1	104	94	10
[illegible]	267	270	−3	219	212	7	37	42	−5	319	298	21
[illegible]	782	824	−42	560	557	3	40	38	2	1,362	1,240	122
[illegible]	136	119	17	87	95	−8	14	10	4	219	169	50
[illegible]	659	590	69	1,490	1,448	42	57	59	−2	572	585	−13
[illegible]	381	392	−11	298	277	21	30	31	−1	337	358	−21
Calhoun	736	648	88	493	509	−16	83	94	−11	623	610	13
Cass	269	284	−15	201	212	−11	31	18	13	235	216	19
Charlotte	176	193	−17	130	167	−37	10	8	2	247	221	26
Cheboygan	201	170	31	143	129	14	14	8	6	291	288	3
Chippewa	313	301	12	271	200	71	13	5	8	399	458	−59
Clare	90	101	−11	83	67	16	9	9	0	160	156	4
Clinton	337	312	25	243	230	13	22	27	−5	371	364	7
Crawford	26	22	4	27	26	1	2	4	−2	36	45	−9
Delta	297	373	−76	239	248	−9	11	12	−1	656	588	68
Dickinson	253	233	20	214	194	20	8	7	1	618	575	43
Eaton	403	392	11	357	310	47	60	52	8	385	363	22
Emmet	214	216	−2	188	171	17	20	26	−6	271	296	−25
Genesee	572	534	38	401	402	−1	61	53	8	471	495	−24
Gladwin	63	67	−4	68	57	11	6	1	5	166	115	51
Gogebic	257	244	13	221	181	40	5	2	3	558	564	−6
Grand Traverse	342	297	45	229	237	−8	32	31	1	285	288	−3
Gratiot	361	392	31	331	316	15	35	35	0	379	420	−41
Hillsdale	422	399	23	317	313	4	41	35	6	312	296	16
Houghton	892	919	−27	757	752	5	14	11	3	2,682	2,534	148
Huron	373	343	30	265	276	−11	14	7	7	818	814	4
Ingham	542	565	−23	395	375	20	27	31	−4	431	422	9
Ionia	464	488	−24	382	312	70	42	44	−2	408	435	−27
Iosco	135	116	19	71	91	−20	4	6	−2	224	192	32

Iron	105	81	24	81	108	−22	5	6	−1	215	212	3
Isabella	243	295	−52	218	219	−1	25	25	0	455	421	34
Jackson	615	578	37	508	474	34	83	79	4	696	739	−43
Kalamazoo	740	722	18	495	435	60	90	68	22	557	778	−221
Kalkaska	88	99	−11	78	68	10	16	7	9	116	83	33
Kent	1,769	1,793	−24	1,398	1,294	104	190	213	−23	*1,924	2,416	−492
Keweenaw	41	44	−3	25	22	3	17	1	16	107	103	4
Lake	58	63	−5	50	58	−8	5	4	1	100	74	26
Lapeer	415	351	64	276	242	34	23	35	−12	342	380	−38
Leelanau	122	152	−30	79	81	−2	6	7	−1	159	186	−27
Lenawee	704	672	32	423	464	−41	61	58	3	565	553	12
Livingston	252	250	2	163	152	11	15	17	−2	237	235	2
Luce	43	30	13	34	25	9	3	2	1	74	41	33
Mackinac	82	77	5	73	68	5	2	4	−2	121	99	22
Macomb	483	498	−15	265	245	20	29	24	5	468	508	−40
Manistee	305	358	−53	207	201	6	15	5	10	470	608	−138
Marquette	507	619	−112	366	378	−12	8	7	1	1,429	1,293	136
Mason	255	263	−8	157	163	−6	10	7	3	376	404	−28
Mecosta	275	268	7	174	192	−18	18	20	−2	332	305	27
Menominee	294	298	−4	322	291	31	8	16	−8	585	418	167
Midland	193	192	1	125	110	15	8	8	0	252	272	−20
Missaukee	86	102	−16	84	75	9	10	10	0	220	232	−12
Monroe	418	446	−28	410	363	47	22	23	−1	543	538	5
Montcalm	419	448	−29	308	321	−13	37	42	−5	442	409	33
Montmorency	32	26	6	26	26	0	6	4	2	32	57	−25
Muskegon	446	476	−30	334	320	14	44	41	3	691	632	59
Newaygo	209	215	−6	161	151	10	23	14	9	225	176	49
Oakland	664	630	34	298	356	−58	35	37	−2	540	439	101
Oceana	211	213	−2	146	135	11	27	24	3	276	245	31
Ogemaw	99	82	17	69	72	−3	3	4	−1	113	82	31
Ontonagon	83	39	44	51	38	13	4	3	1	173	129	44
Osceola	185	249	−64	170	159	11	17	11	6	334	331	3
Oscoda	6	6	.....	12	14	−2	1	1	0	21	16	5
Otsego	83	83	.....	73	54	19	0	3	−3	121	110	11
Ottawa	487	498	−11	362	331	31	15	18	−3	718	798	−80
Presque Isle	108	55	53	80	86	−6	5	4	1	227	218	9
Roscommon	27	14	13	13	8	5	7	1	6	40	29	11
Saginaw	1,091	1,038	53	804	766	38	96	110	−14	1,636	1,182	454
St. Clair	770	724	46	483	467	16	54	39	15	871	895	−24
St. Joseph	356	323	33	183	204	−21	29	12	17	286	259	27
Sanilac	349	409	−60	296	280	16	10	15	−5	710	645	65
Schoolcraft	113	104	9	83	77	6	6	12	−6	193	164	29
Shiawassee	457	439	18	351	367	−16	57	70	−13	417	498	−81
Tuscola	509	473	36	316	327	−11	31	33	−2	548	611	−63
Van Buren	495	444	51	332	287	45	44	46	−2	391	377	14
Washtenaw	655	608	47	340	325	15	45	52	−7	516	594	−78
Wayne	5,503	5,414	89	3,066	2,930	136	350	382	−32	7,439	8,321	−882
Wexford	215	259	−44	180	194	−14	26	20	6	332	356	−24

*Stillbirths not included in deaths, but included in births (returned under old law). †Decrease indicated by minus sign (—).

PART II.—DEATHS AND CAUSES OF DEATH IN MICHIGAN DURING THE YEAR 1901.

The total number of deaths returned to the Department of State during the year, under the law requiring certificates of death and burial permits, was 32,834, an increase of 281 over the previous year. This number is exclusive of stillbirths, of which 1,501 were also returned on certificates of death.

Quite a large number of districts, aggregating a population of 21,821 persons, have been exempt heretofore from the law requiring the immediate registration of deaths and the issue of burial or removal permits, owing to the very sparse population. We are pleased to say, however, that on March 18, 1901, an amendment to the registration law was passed, taking immediate effect, whereby the entire State was brought under the provisions of the law. Many of the districts, however, that were legally exempt during the first two and one-half months of the year made voluntary monthly reports to the Department, so that very few deaths escaped registration from the fact that a few nonregistration districts existed for a short time in the early part of the year.

As the number of deaths thus possibly escaping registration was very small and probably not sufficient to affect the death rate in any way, no account is made of them in this report.

In Table 1, Part I, is presented a statement of the number of deaths occurring each month of the year, together with the daily averages.

The largest number of deaths occurring in any month was during March, with 3,390, but the month of largest *daily average* was February, having 3,089 deaths, but with a daily average of 110.3. The months in which the least number of deaths occurred were June and November, 2,354 each, but the month of least *daily average* was July, with 77.3 deaths per day.

Table 2, Part I, shows the deaths and death rates for previous years in comparison with 1901. Under the International Classification, which has now come into general use, stillbirths are excluded from deaths, being relegated to a separate class.

In examining Table 2, it may be noted that while the rates for the years of registration under the old law, prior to 1898, are too imperfect to be directly comparable with the later years, 1898, 1899, 1900 and 1901, nevertheless, it is probable that the variations in the mortality are, for the most part, correctly indicated. The method of enumeration remained uniform during the earlier period, 1867-97, so that, undoubtedly, the general degree of accuracy remained the same.

Among other classes of vital statistics presented in Table 6, the distribution of deaths through the various counties of the State is also shown, the death rates there shown being based upon the estimated populations. In comparing the death rates of the several counties, as shown in this table, due attention should be given to the age and sex distribution, which greatly affects rates of mortality.

As in previous reports, this portion is divided into two sections, viz., Section I, The Incidence of Deaths, by months, sex, age, geographical location, etc., and Section II, The Causes of Death. It should not be understood that the second division fails to study the factors mentioned in the preceding group, but its distinctive feature is that it classifies them with reference to particular diseases, instead of simply showing their relation to total mortality.

SECTION I.—INCIDENCE OF DEATHS IN MICHIGAN DURING THE YEAR 1901.

The tables in this section contain statements in regard to the incidence of deaths in the State during the year 1901, arranged to show the following particulars: (1) Deaths from all causes by months; (2) number and proportion of each sex among the decedents; (3) deaths by ages of decedents; (4) geographical distribution of deaths; and (5) location as urban and rural. Herewith is presented a brief statement of the more prominent facts contained in this section.

Following are some of the most important facts relative to the occurrence of deaths from all causes during the year 1901:

Total number of deaths returned, 1901	32,834
Death rate per 1,000 population, 1901	13.4

In addition to the above stated number of deaths, there were also 1,501 stillbirths included among the returns of deaths but no longer compiled with them.

Stillbirths registered, 1901	1,501
Stillbirth rate per 1,000 population, 1901	0.6

As to the monthly incidence of deaths, we have:

More than average mortality, 1901	January, February, March, April, September
Less than average mortality, 1901	May, June, July, August, October, November, December
Maximum mortality, 1901	March, 3,390 deaths or 17.2 per 1,000
Minimum mortality, 1901	June and November, 2,354 deaths or 11.7 per 1,000

By sex, there were:

Males dying in Michigan, 1901	17,540 or 13.9 per 1,000 male inhabitants
Females dying in Michigan, 1901	15,273 or 12.9 per 1,000 female inhabitants
Ratio of death rate of males to death rate of females, 1901	108 per cent

By age periods there were, exclusive of stillbirths, deaths as follows:

Under 1 year of age	6,319 or 19.2 per cent
Under 5 years of age	8,571 or 26.1 per cent
Aged 5 to 14 years	1,461 or 4.4 per cent
Aged 15 to 64 years	12,993 or 39.6 per cent
Aged 65 years and over	9,692 or 29.5 per cent

By geographical sections, we have the following:

Death in the Upper Peninsula	3,388 or 12.5 per 1,000 population
Northern counties	3,654 or 12 1 per 1,000 population
Central counties	5,461 or 12.4 per 1,000 population
Southern counties	20,331 or 14.2 per 1,000 population

Distinguished as urban and rural there were:

Deaths in cities	13,837 or 42.1 per cent :death rate 14.4 per 1,000 population
Deaths in country	18,997 or 57.9 per cent; death rate 12.8 per 1,000 population

DEATHS BY MONTHS AND QUARTERS, 1901.

The distribution of deaths by months and quarters for the year is shown in Table 8, the mortality being distributed through the months about as evenly as it was in the preceding year. The maximum monthly rate, however, 16.4, was in the month of February, while in the preceding year it was 17.1 for September. March had the largest number of deaths for any month during the year, 3,390, while the largest daily average was for the month of February. The least number of deaths occurred during the months of June and November, each being credited with 2,354 deaths, with a corresponding rate of 11.7. While March had the greatest number of deaths numerically, the highest death rate per 1,000 estimated population was for February, 16.4; and although, as noted above, June and November had the fewest number of deaths, the minimum death rate per 1,000 estimated population, 11.5, was for the month of July.

It will be observed also in this table that for convenience of comparison in studying the comparative mortality by months, a scale on which the average number of deaths per month is taken as 100 is used. By the use of this scale, we find the months standing in the following order: February, 123; March, 122; January, 112; April, 107; September, 105; May, 97; December, 95; August, 92; October, 88; June and November, each 87; July, 86.

A comparison of the death rates of the months, as based on the final compilation of returns after all delinquent districts have been reported, with the rates as originally printed in the Monthly Bulletins, is also shown in this table.

An interesting feature is also appended to this table showing the increase or decrease in rates corrected for increase or decrease of reporting population.

In Table 9 the total number of deaths for the year, as published in the Monthly Bulletins, is shown, 32,339, in comparison with the number ultimately returned and compiled in this report 32,834; thus it will be seen that there were 495 delayed returns during the year, that is, returns not reaching the State Department until after the close of the Bulletin each month, as compared with 458 during the preceding year. It should not be considered, however, that the 495 deaths noted as delayed returns in this table, were long delayed, the great majority being received only a few days after the close of the Bulletin, which is usually about the twelfth of each month. The final figures as compared with the original returns make but very slight variations, affecting only the decimal part of the rates. The monthly differences, however, vary somewhat considerably, as shown in this table.

Table 8.—Deaths in Michigan by months and quarters, 1901. (Stillbirths excluded.)

Year and months.	Number of deaths. By months.	Number of deaths. By quarters.	Average number per day.	Rank.	Death rate per 1,000 estimated population.	Death rates as originally printed in *Bulletin*.*	Preceding column corrected for increase of reporting population.	Increase for delayed returns.†
Year, 1901.....	32,834	32,834	.....	1,200	13.4	14.0	.....	0.1
January.....	3,128	9,607	100.9	112	15.1	15.7	15.0	0.1
February.....	3,089		110.4	123	16.4	17.1	16.3	0.1
March.....	3,390		109.4	122	16.3	17.2	16.3	.....
April.....	2,894	7,968	96.5	107	14.4	15.3	14.4	.....
May.....	2,720		87.7	97	13.1	13.7	13.0	0.1
June.....	2,354		78.5	87	11.7	12.5	11.7	.....
July.....	2,395	7,815	77.3	86	11.5	12.2	11.5	.....
August.....	2,573		83.0	92	12.4	13.1	12.3	0.1
September ...	2,847		94.9	105	14.2	14.7	14.1	0.1
October.....	2,435	7,444	78.5	88	11.7	12.6	11.8	—0.1
November	2,354		78.5	87	11.7	12.5	11.6	0.1
December	2,655		85.6	95	12.8	13.5	12.7	0.1
Average ..	2,736	8,209	90.1	100	.....	.....	.....	.....

* For the year 1901 the reporting population was not estimated, as has been the usual practice but the census figures for 1900 were used. The resulting differences can be noted by examining the following column, which is employed in the subsequent comparison of rates.

† Decrease indicated by minus sign.

Table 9.—Delayed returns of deaths by months, 1901. (Stillbirths excluded.)

Deaths returned and published in—	Total deaths, 1901.	Months of death, 1901. Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Annual Registration Report.....	32,834	3,128	3,089	3,390	2,894	2,720	2,354	2,395	2,573	2,847	2,435	2,354	2,655
Monthly Bulletins...	32,339	3,061	3,034	3,341	2,864	2,664	2,334	2,351	2,539	2,801	2,416	2,305	2,629
Delayed returns.....	495	67	55	49	30	56	20	44	34	46	19	49	26
Per cent*.....	1.5	2.1	1.8	1.4	1.0	2.1	0.8	1.8	1.3	1.6	0.8	2.1	1.0

* Per cent of deficiency of Bulletin returns as compared with final figures of report (=100%).

MORTALITY OF THE SEXES IN MICHIGAN, 1901.

The distribution of deaths by sex during the year 1901 is shown in Table 10, together with a comparison with the estimated population of each sex, and also of the results of the preceding years, 1890-1900, with the twelve-year average, 1890-1901.

Excluding stillbirths, there were 17,540 male decedents and 15,273 female decedents during the year. The respective death rates were 13.9 and 12.9 per thousand population. These death rates are strictly comparable only with those of the years 1898, 1899 and 1900, as the previous years, 1890-97, were collected under the very imperfect law that was then in effect. However, the relative number of males per one hundred deaths of females for the year, 114.8, is fully comparable with the cor-

responding ratios for the preceding years, and the relative male mortality shown in the last column of the table, 108 per cent, which is the ratio of the death rates of males to the death rates of the females taken as 100 per cent, is also correctly shown. The fact of the exclusion of stillbirths for the current year should be considered, this factor possessing a high relative male mortality.

As usual, the male mortality somewhat exceeds the female mortality, the number being 2,267. A more satisfactory and complete comparison, however, can be made by means of Table 12, which gives the important item of age distribution by sexes.

Table 10.—Deaths and death rates in Michigan by sex, 1890-1901. (Stillbirths included.)

Year.	Population.		Number of deaths.		Rates per 1,000.		Deaths of males to 100 deaths of females.	Relative male mortality.†
	Males.	Females.	Males.	Females.	Males.	Females.		
1890*	**1,091,780**	**1,002,109**	**11,801**	**9,771**	**10.8**	**9.8**	**120.7**	**110**
1891	1,108,970	1,021,857	11,908	9,998	10.7	9.8	119.1	109
1892	1,126,160	1,041,605	11,837	9,809	10.5	9.4	120.7	112
1893	1,143,350	1,061,353	11,772	10,142	10.3	9.6	116.1	107
1894*	**1,160,540**	**1,081,101**	**11,159**	**9,744**	**9.6**	**9.0**	**114.5**	**107**
1895	1,177,730	1,100,849	12,161	10,510	10.3	9.5	115.7	108
1896	1,194,920	1,120,597	11,807	10,119	9.9	9.0	116.7	110
1897	1,212,110	1,140,345	10,294	8,829	8.5	7.7	116.6	110
1898	1,229,300	1,160,093	15,624	13,809	12.7	11.9	113.1	107
1899	1,246,490	1,179,841	18,025	15,605	14.5	13.2	115.5	110
1900*	**1,248,905**	**1,172,077**	**17,948**	**15,772**	**14.4**	**13.5**	**113.8**	**107**
1901‡	1,263,632	1,187,240	17,540	15,273	13.9	12.9	114.8	108
Average, 1890-1901	1,183,657	1,105,756	13,490	11,615	11.4	10.5	116.1	109

* Census years.
† Ratio of *death rates* (not deaths) of males to death rates of females. This comparison eliminates the unequal distribution of the sexes in the population.
‡ Stillbirths excluded.

DEATHS BY SEXES AND AGE PERIODS, 1901

In Table 11 will be found data showing the general distribution of deaths returned for the year 1901, distinguishing the sexes and age periods of the decedents. Stillbirths are not included in this table, as formerly. The relations of the number of deaths at each year under five and at quinquennial age periods up to the age of eighty years are given. It will be noted that 19.2 per cent of the total number of deaths in the State were under one year of age, and 26.1 per cent in the age period under five years. In other words over one-fourth of the total number of deaths recorded for the year were those of children under five years of age, the percentage for males being somewhat higher than that for females.

Comparison of the percentage of deaths of males and females to the total number of deaths, exclusive of unknown sex, shows that for most

periods of age the percentage of males is the larger. Exceptions are for the ages fifteen to thirty-four, corresponding to the child-bearing age of females, during which the number of deaths recorded is greater than those of males.

Table 11.—Deaths in Michigan by sex and age periods, 1901. (Stillbirths excluded.)

Ages.	Number of deaths, 1901.				Per cent of deaths at each age to total at all ages.			Per cent of deaths of each sex to total of both sexes.*				Excess of the sexes by number.		Males to 100 females.
										Excess.				
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
All ages.....	32,834	17,540	15,273	21	100.0	100.0	100.0	53.5	46.5	7.0	.....	2,267	.....	115
Under 1 year..	6,319	3,583	2,730	6	19.2	20.4	17.9	56.8	43.2	13.6	.....	853	.....	131
1 year.....	1,121	594	526	1	3.4	3.4	3.4	53.0	47.0	6.0	.....	68	.....	113
2 years.....	530	274	256	.....	1.6	1.6	1.7	51.7	48.3	3.4	.....	18	.....	107
3 years.....	348	163	185	.....	1.1	0.9	1.2	46.8	53.2	.....	6.4	.....	22	88
4 years.....	253	135	118	.....	0.8	0.8	0.8	53.4	46.6	6.8	.....	17	.....	114
Under 5 years..	*8,571*	*4,749*	*3,815*	*7*	*26.1*	*27.1*	*25.0*	*55.5*	*44.5*	*11.0*	.....	*934*	.....	*124*
5 to 9 years....	786	399	387	.....	2.4	2.3	2.5	50.8	49.2	1.6	.....	12	.....	103
10 to 14 years..	675	380	295	.....	2.1	2.2	1.9	56.3	43.7	12.6	.....	85	.....	129
15 to 19 years..	1,056	522	534	.....	3.2	3.0	3.5	49.4	50.6	.....	1.2	.....	12	98
20 to 24 years..	1,301	631	670	.....	4.0	3.6	4.4	48.5	51.5	.....	3.0	.....	39	94
25 to 29 years..	1,262	585	677	.....	3.8	3.3	4.4	46.4	53.6	.....	7.2	.....	92	86
30 to 34 years..	1,151	515	636	.....	3.5	2.9	4.2	44.7	55.3	.....	10.6	.....	121	81
35 to 39 years..	1,163	586	577	.....	3.5	3.3	3.8	50.4	49.6	0.8	.....	9	.....	102
40 to 44 years..	1,196	633	563	.....	3.6	3.6	3.7	52.9	47.1	5.8	.....	70	.....	112
45 to 49 years..	1,189	637	552	.....	3.6	3.6	3.6	53.6	46.4	7.2	.....	85	.....	115
50 to 54 years..	1,374	736	638	.....	4.2	4.2	4.2	53.6	46.4	7.2	.....	98	.....	115
55 to 59 years..	1,561	860	701	.....	4.8	4.9	4.6	55.1	44.9	10.2	.....	159	.....	123
60 to 64 years..	1,740	947	793	.....	5.3	5.4	5.2	54.4	45.6	8.8	.....	154	.....	119
65 to 69 years..	2,249	1,240	1,009	.....	6.8	7.1	6.6	55.1	44.9	10.2	.....	231	.....	123
70 to 74 years..	2,241	1,253	988	.....	6.8	7.1	6.5	55.9	44.1	11.8	.....	265	.....	127
75 to 79 years..	2,222	1,204	1,018	.....	6.8	6.9	6.7	54.2	45.8	8.4	.....	186	.....	118
80 yrs. and over	2,980	1,583	1,397	.....	9.1	9.0	9.1	53.1	46.9	6.2	.....	186	.....	113
Unknown ages	117	80	23	14	0.4	0.5	0.2	77.7	22.3	55.4	.....	57	.....	348

* Unknown sex excluded.

In order to obtain a more satisfactory statement of the mortality of the sexes by ages, Table 12 has been prepared, showing the estimated population for each sex and age.

The total death rate for both sexes, 13.4 per 1,000 estimated population, is based on the total estimated population for the State for the year. In like manner the rates for individual ages are based on partial popu-

lations for these ages estimated in the same manner as the total population.

Considered with reference to the sex distribution of the population, the death rate of males for the year, 13.9 per 1,000, as compared with the death rate of females for the year, 12.0 per 1,000, represents a relative male mortality of 108 per cent. The relative male mortality is highest under one year of age, although the period 10-14 nearly reaches it.

Table 12.—Deaths and death rates in Michigan by age periods and sex, 1901. (Stillbirths excluded.)

Ages	Estimated population, 1901.			Deaths, 1901.				Death rates per 1,000 estimated population of same age and sex, 1901.			Relative male mortality.*
	Total.	Males.	Females.	Total.	Male.	Females.	Unknown.	Total.	Males.	Females.	
All ages	2,450,872	1,263,633	1,187,239	32,834	17,540	15,273	21	13.4	13.9	12.9	108
Under 1 year	53,929	27,303	26,626	6,319	3,583	2,730	6	117.2	131.2	102.5	128
1 year	50,783	25,679	25,104	1,121	594	526	1	22.1	23.1	21.0	110
2 years	50,035	25,396	24,639	530	274	256	....	10.6	10.8	10.4	104
3 years	53,105	26,752	26,353	348	163	185	....	6.6	6.1	7.0	87
4 years	52,253	26,302	25,951	253	135	118	....	4.8	5.1	4.5	113
Under 5 years	*260,105*	*131,432*	*128,673*	*8,571*	*4,749*	*3,815*	7	*33.0*	*36.1*	*29.6*	*122*
5 to 9 years	266,570	135,260	131,310	786	399	387	....	2.9	2.9	2.9	100
10 to 14 years	250,609	126,338	124,271	675	380	295	....	2.7	3.0	2.4	125
15 to 19 years	235,176	117,364	117,812	1,056	522	534	....	4.5	4.4	4.5	98
20 to 24 years	224,723	112,782	111,941	1,301	631	670	....	5.8	5.6	6.0	93
25 to 29 years	200,026	102,278	97,748	1,262	585	677	....	6.3	5.7	6.9	83
30 to 34 years	179,878	93,191	86,687	1,151	515	636	....	6.4	5.5	7.3	75
35 to 39 years	167,119	88,040	79,079	1,163	586	577	....	7.0	6.7	7.3	92
40 to 44 years	151,381	81,061	70,320	1,196	633	563	....	7.9	7.8	8.0	98
45 to 49 years	124,608	67,233	57,375	1,189	637	552	....	9.5	9.5	9.6	99
50 to 54 years	105,713	57,247	48,466	1,374	736	638	....	13.0	12.9	13.2	98
55 to 59 years	88,407	46,769	41,638	1,561	860	701	....	17.7	18.4	16.8	110
60 to 64 years	68,122	35,688	32,434	1,740	947	793	....	25.5	26.5	24.4	109
65 to 69 years	52,615	27,865	24,750	2,249	1,240	1,009	....	42.7	44.5	40.8	109
70 to 74 years	34,830	18,597	16,233	2,241	1,253	988	....	64.3	67.4	60.9	111
75 to 79 years	21,765	11,794	9,971	2,222	1,204	1,018	....	102.1	102.1	102.1	100
80 years and over	15,345	7,970	7,375	2,980	1,583	1,397	....	194.2	198.6	189.4	105
Unknown	3,870	2,714	1,156	117	80	23	14	30.2	29.5	19.9	148

* Ratio of death rates of males to death rates of females.

Table 13.—Death rates and ratios of deaths at certain periods of age, 1870-1901. (Still-births excluded from both births and deaths.)

Years and periods.	Death rates per 1,000 population of corresponding age.						Percentages of deaths at each age to total deaths at all ages.					Deaths of infants under 1 year of age per 1,000 living births.
	All ages.	Under 1 year.	Under 5 years.	5 to 14.	15 to 64.	65 and over.	Under 1 year.	Under 5 years.	5 to 14.	15 to 64.	65 and over.	
1870	8.9	74.4	26.5	3.5	5.4	37.0	23.5	42.1	9.6	36.6	11.6	91.3
1871	7.7	58.3	21.2	2.9	4.8	36.9	21.2	38.7	9.3	38.1	14.0	75.6
1872	10.3	88.7	30.9	4.0	6.3	38.1	23.9	41.6	9.3	37.2	11.9	110.9
1873	10.6	92.4	31.7	4.4	6.5	41.2	23.9	40.9	9.9	37.2	12.0	96.0
1874	8.8	79.5	25.7	3.0	5.6	38.0	24.6	39.6	8.1	38.7	13.7	94.8
1875	8.1	71.2	23.3	2.6	5.1	34.6	24.2	39.1	7.8	39.1	14.0	85.5
1876	8.2	72.0	23.5	3.0	5.0	37.9	23.7	38.3	8.5	37.8	15.4	82.8
1877	8.1	66.9	23.0	3.2	5.0	37.1	22.1	37.5	9.2	37.8	15.4	81.1
1878	7.7	59.7	21.2	3.4	4.6	36.0	20.6	35.8	10.0	38.0	16.0	70.5
1879	8.6	67.5	24.3	4.3	5.0	38.5	20.8	36.7	11.7	36.0	15.7	84.1
1880	9.4	75.7	27.4	4.6	5.4	39.9	21.5	37.9	11.3	35.7	15.2	93.5
1881	11.0	91.7	33.8	6.1	6.1	41.3	21.7	39.0	12.6	34.7	13.7	116.4
1882	9.0	73.3	26.1	4.7	5.3	36.8	20.9	36.3	11.9	36.3	15.4	88.7
1883	9.0	74.5	25.8	3.8	5.5	37.7	21.1	35.5	9.7	38.5	16.3	83.0
1884	9.4	88.5	28.7	3.8	5.5	39.2	23.7	37.4	9.2	36.9	16.5	101.2
1885	8.4	72.9	23.6	3.2	5.2	37.6	21.6	34.1	8.6	39.1	18.2	81.2
1886	9.0	83.2	27.2	3.3	5.4	38.7	22.8	36.4	8.3	37.5	17.9	96.1
1887	9.5	86.1	28.4	3.4	5.7	41.4	22.1	35.5	8.1	37.9	18.5	(97.2)89.3
1888	10.2	97.0	30.8	3.3	6.2	44.9	23.0	35.4	7.2	38.3	19.1	(103.4)97.2
1889	9.3	84.5	27.6	3.2	5.8	40.4	21.7	34.3	7.6	39.1	19.1	(91.1)84.9
1890	9.7	84.0	27.2	3.8	6.1	41.9	20.6	32.4	8.6	39.7	19.4	(89.7)80.8
1891	9.9	86.3	26.9	3.3	6.1	46.0	21.3	32.0	7.5	39.2	21.2	(93.7)87.8
1892	9.6	78.3	25.1	3.2	5.9	47.0	20.2	31.0	7.4	39.3	22.4	90.5
1893	9.5	80.8	25.0	3.1	5.9	46.8	21.1	31.1	7.2	39.1	22.4	93.2
1894	8.9	75.3	22.8	2.6	5.7	43.5	21.2	30.6	6.4	40.8	22.3	95.9
1895	9.5	78.0	23.2	2.5	6.2	50.9	20.6	29.1	5.7	41.0	24.2	97.9
1896	9.0	69.6	21.8	2.6	5.7	46.2	20.0	29.5	6.3	40.4	23.7	91.0
1897	8.1	61.9	18.9	2.4	5.2	45.1	19.6	28.1	6.3	40.3	25.3	86.6
1898	11.8	88.6	26.0	2.6	7.5	74.0	19.6	26.8	4.6	39.8	28.8	.....
1899	13.3	99.6	29.8	3.0	8.3	84.0	19.6	27.5	4.7	38.8	29.1	.....
1900	13.4	126.8	36.2	3.1	8.2	71.9	21.2	29.1	4.9	38.3	27.3	.....
1901	13.4	117.2	33.0	2.8	8.4	76.4	19.2	26.1	4.4	39.6	29.5	.....
1870-74	9.3	78.7	27.2	3.6	5.7	38.2	23.4	40.6	9.2	37.6	12.6	93.7
1875-79	8.1	67.5	23.1	3.3	4.9	36.8	22.3	37.5	9.4	37.7	15.3	80.8
1880-84	9.6	80.7	28.4	4.6	5.6	39.0	21.8	37.2	10.9	36.4	15.4	96.6
1885-89	9.3	84.7	27.5	3.3	5.7	40.6	22.2	35.1	8.0	38.4	18.6	(93.8)89.7
1890-94	9.5	80.9	25.4	3.2	5.9	45.0	20.9	31.4	7.4	39.6	21.5	(92.6)89.6
1895-99	10.3	79.5	23.9	2.6	6.6	60.0	19.9	28.2	5.5	40.1	26.2	.....
1870-99	9.4	78.7	25.9	3.4	5.7	43.3	21.8	35.0	8.4	38.3	18.3	.....

NOTE—The numbers in parentheses in the last column represent the figures for infant mortality after correction, as far as possible, for fraudulent returns of births and deaths from Wayne county (Detroit) during the years 1887-91. See report for 1892, p. 14. No comparison can be made of the deaths as accurately registered under the new law for the years 1898-1901 with the very imperfect returns of births obtained under the law of 1867, which has never been amended.

DEATH RATES AND PROPORTIONAL DEATHS BY AGE PERIODS, 1870-1901.

Table 13 compares the incidence of mortality from all causes at certain important periods of age and also states the proportional deaths at those periods. The increased accuracy of registration beginning with the year 1898 will account for the higher rates shown for the past few years. While the proportional deaths should not be necessarily affected by increased accuracy of registration, assuming that one age was just as liable as another to be omitted under the old law, it is possible that study may show some differential selection of certain ages, and hence conclusions in involving comparisons of the two sets of returns should be cautiously drawn.

Table 14.—Mortality in Michigan, by geographical sections and groups of cities.

Population by geographical sections and as urban and rural.	Total reporting population by U. S. census of 1900.	Total deaths reported for 1901.	Annual death rates per 1,000 population.	Still-births.	Important			
					Under 1.		1 to 4.	
					Number.	Per cent.	Number.	Per cent.
JANUARY	2,386,359	3,173	15.7	112	544	17.8	192	6.3
I.—UPPER PENINSULA	245,728	279	13.4	12	60	22.5	44	16.5
II.—NORTHERN COUNTIES	282,027	361	15.1	16	85	24.6	23	6.7
III.—CENTRAL COUNTIES	437,983	514	13.8	13	108	21.6	30	6.0
IV.—SOUTHERN COUNTIES	1,420,621	2,019	16.8	71	291	14.9	95	4.9
ALL CITIES	943,184	1,374	17.2	72	246	18.9	89	6.8
Over 50,000	373,269	555	17.5	40	126	24.5	33	6.4
25,000 to 50,000	95,153	153	19.0	5	20	13.5	13	8.8
10,000 to 25,000	212,890	267	14.8	16	37	14.7	16	6.4
5,000 to 10,000	153,006	236	18.2	8	39	17.1	16	7.0
Under 5,000	108,866	163	17.7	3	24	15.0	11	6.9
COUNTRY	1,443,175	1,799	14.7	40	298	16.9	103	5.9
FEBRUARY	2,385,991	3,145	17.1	111	536	17.7	185	6.1
I.—UPPER PENINSULA	244,898	292	15.5	17	75	27.3	38	13.8
II.—NORTHERN COUNTIES	283,332	330	15.1	12	71	22.3	20	6.3
III.—CENTRAL COUNTIES	439,828	566	16.7	17	97	17.7	40	7.3
IV.—SOUTHERN COUNTIES	1,417,933	1,957	17.9	65	293	15.5	87	4.6
ALL CITIES	943,184	1,301	17.9	68	235	19.1	69	5.6
Over 50,000	373,269	521	18.1	41	110	22.9	32	6.7
25,000 to 50,000	95,153	127	17.4	6	17	14.0	5	4.0
10,000 to 25,000	212,890	286	17.5	10	47	17.0	6	2.2
5,000 to 10,000	153,006	232	19.7	7	38	16.9	21	9.3
Under 5,000	108,866	135	16.1	4	23	17.6	5	3.8
COUNTRY	1,442,807	1,844	16.6	43	301	16.7	116	6.4
MARCH	2,395,983	3,488	17.2	147	673	20.1	203	6.1
I.—UPPER PENINSULA	247,695	277	13.2	29	86	34.7	36	14.5
II.—NORTHERN COUNTIES	289,852	409	16.7	20	101	26.0	26	6.7
III.—CENTRAL COUNTIES	437,770	609	16.4	21	124	21.1	45	7.7
VI.—SOUTHERN COUNTIES	1,420,666	2,193	18.2	77	362	17.1	96	4.5
ALL CITIES	943,184	1,408	17.6	83	278	21.0	78	5.9
Over 50,000	373,269	600	19.0	40	145	25.9	37	6.6
25,000 to 50,000	95,153	130	16.1	6	10	8.1	6	4.8
10,000 to 25,000	212,890	281	15.6	10	44	16.2	10	3.7
5,000 to 10,000	153,006	237	18.3	23	50	23.4	13	6.1
Under 5,000	108,866	160	17.3	4	29	18.6	12	7.7
COUNTRY	1,452,799	2,080	16.9	64	395	19.6	125	6.2
APRIL	2,395,268	2,999	15.3	135	497	17.4	175	6.1
I.—UPPER PENINSULA	253,629	287	13.8	16	88	32.5	23	8.5
II.—NORTHERN COUNTIES	287,471	345	14.6	18	81	24.8	31	9.5
III.—CENTRAL COUNTIES	438,741	501	13.9	17	85	17.6	23	4.8
IV.—SOUTHERN COUNTIES	1,415,427	1,866	16.1	84	243	13.6	98	5.5
ALL CITIES	943,184	1,274	16.5	79	207	17.3	84	7.0
Over 50,000	373,269	503	16.4	47	89	19.5	37	8.1
25,000 to 50,000	95,153	118	15.1	2	14	12.1	8	6.9
10,000 to 25,000	212,890	291	16.7	14	55	19.8	14	5.0
5,000 to 10,000	153,006	209	16.7	10	25	12.6	15	7.5
Under 5,000	108,866	153	17.1	6	24	16.3	10	6.8
COUNTRY	1,452,084	1,725	14.5	56	290	17.4	91	5.5

as originally published in the Michigan Monthly Bulletin of Vital Statistics, 1901.

ages.		Deaths and annual death rates per 100,000 population from important causes.									
65 and over.		Pulmonary tuberculosis.		Other tuberculosis.		Typhoid fever		Diphtheria.		Croup.	
Number.	Per cent.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.
972	31.8	235	116.2	30	14.8	76	37.6	37	18.3	32	15.8
27	10.1	26	124.9	4	19.2	8	38.4	9	43.2	4	19.2
68	19.7	28	117.2	3	12.6	10	41.8	5	20.9	5	20.9
159	31.7	41	110.5	4	10.8	9	24.2	5	13.5	3	8.1
718	36.9	140	116.3	19	15.8	49	40.7	18	15.0	20	16.6
347	26.7	109	136.4	12	15.0	24	30.0	18	22.5	14	17.5
128	24.9	44	139.1	6	19.0	4	12.6	6	19.0	7	22.1
46	31.1	13	161.2	.....	.....	3	37.2	1	12 4	2	24.8
58	23.1	21	116.4	3	16.6	8	44.3	3	16.6	3	16.6
64	28.1	16	123.4	2	15.4	5	38.6	4	30.8	1	7.7
51	31.9	16	162.6	1	10.8	4	43.4	4	43.4	1	10.8
625	35.5	126	108.0	18	14.7	52	42.5	19	15.5	18	14.7
1,029	33.9	165	89.9	19	10.4	43	23.4	27	14.7	20	10.9
28	10.2	18	95.6	5	26.5	4	21.2	4	21.2	1	5.3
89	28.0	11	50.5	1	4.6	3	13.8	1	4.6	3	13.8
187	34.1	29	85.7	2	5.9	5	14.8	3	8.9	4	11 8
725	38.3	107	98.1	11	10.1	31	28.4	19	17.4	12	11.0
343	27.8	82	113.0	11	15.2	17	23.4	15	20.7	8	11.0
118	24.6	37	128.9	3	10.4	6	20.9	5	17.4	3	10.4
48	39.7	8	109.3	1	13.7	2	27.3	.....	.....	1	13.7
70	25.4	15	91.6	3	18.3	4	24.4	3	18.3	.....	.....
63	28.0	15	127.4	4	34.0	4	34.0	3	25.5	3	25.5
44	33.6	7	83.6	.....	.....	1	11.9	4	47.8	1	11.9
686	38.1	83	74.8	8	7.2	26	23.4	12	10.8	12	10 8
1,024	30.6	217	106.9	34	16.7	45	22.2	21	10.3	14	6.9
27	10.9	16	76.2	4	19.1	6	28.6	1	4.8	4	19.1
90	23.1	29	118.1	6	24.4	2	8.1	2	8.1	2	8.1
167	28.4	38	102.4	9	24.3	6	16.2	9	24.3	4	10.8
740	35.0	134	111.3	15	12.5	31	25.7	9	7.5	4	3.3
336	25.4	97	121.4	17	21.3	19	23 8	9	11.3	8	10.0
124	22.1	37	117.0	3	9.5	10	31.6	5	15.8	3	9.5
35	28.2	9	111.6	2	24.8	1	12.4	1	12.4	1	12.4
83	30.6	21	116.4	5	27.7	5	27.7	2	11.1	2	11.1
51	23.8	17	131.1	2	15.4	2	15.4	1	7.7	1	7.7
43	27.6	13	140.9	5	54.2	1	10.8	.....	.....	1	10.8
686	34.1	120	97.5	17	13.8	26	21.1	12	9.7	6	4.9
884	30.9	207	105.4	34	17.3	32	16.3	36	18.3	6	3.1
25	9.2	23	105.8	5	24.1	4	19.2	4	19.2	1	4.8
74	22.6	31	131.6	2	8.5	1	4.2	6	25.5	1	4.2
124	27.7	34	94.5	10	27.8	3	8.3	6	16.7	2	5.6
651	36.5	120	103.4	17	14.7	24	20.7	20	17.2	2	1.7
306	25.6	86	111.2	23	29.8	15	19.4	20	25.9	2	2.6
110	24.1	30	98.1	5	16.3	4	13.1	8	26.1	.....	.....
35	30.2	10	128.2	6	76.9	2	25.6	2	25.6	.....	.....
67	24.1	18	103.2	8	45.8	1	5.7	5	28.7	1	5.7
48	24.1	21	167.5	3	23.9	5	39.9	2	15.9	.....	.....
46	31.3	7	78.4	1	11.2	3	33.6	3	33.6	1	11.2
533	34.6	121	101.7	11	[illegible]	17	14.3	16	13.4	4	3.4

Table 14.—Continued.—Mortality in Michigan, by geographical sections and groups of

Population by geographical sections and as urban and rural.	Scarlet fever.		Measles.		Whooping cough.		Pneumonia.	
	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.
JANUARY	30	14.8	3	1.5	13	6.4	402	198.8
I.—UPPER PENINSULA	12	57.6	1	4.8	1	4.8	31	148.9
II.—NORTHERN COUNTIES	4	16.7	.....	.....	2	8.4	48	200.8
III.—CENTRAL COUNTIES	6	16.2	1	2.7	5	13.5	74	199.4
IV.—SOUTHERN COUNTIES	8	6.6	1	0.8	5	4.2	249	206.8
ALL CITIES	10	12.5	.....	.....	8	10.0	170	212.7
Over 50,000	4	12.6	.....	.....	4	12.6	65	205.5
25,000 to 50,000	.....	.....	.....	.....	2	24.8	27	334.8
10,000 to 25,000	3	16.6	.....	.....	1	5.5	28	155.2
5,000 to 10,000	2	15.4	.....	.....	.....	.....	37	285.3
Under 5,000	1	10.8	.....	.....	1	10.8	13	140.9
COUNTRY	20	16.4	3	2.5	5	4.1	232	189.7
FEBRUARY	34	18.5	5	2.7	13	7.4	474	258.3
I.—UPPER PENINSULA	8	42.5	.....	.....	3	15.9	39	207 0
II.—NORTHERN COUNTIES	5	22.9	.....	.....	1	4.6	55	252.4
III.—CENTRAL COUNTIES	8	23.6	2	5.9	4	11.8	92	271.9
IV.—SOUTHERN COUNTIES	13	11.9	3	2.8	5	4.6	288	264.0
ALL CITIES	12	16.5	.....	.....	7	9.6	184	253.6
Over 50,000	4	13.9	.....	.....	3	10.4	77	268.2
25,000 to 50,000	.....	.....	.....	.....	.....	.....	21	286.9
10,000 to 25,000	1	6.1	.....	.....	2	12.2	34	207.6
5,000 to 10,000	7	59.5	.....	.....	.....	.....	32	271.9
Under 5,000	.....	.....	.....	.....	2	23.9	20	238.8
COUNTRY	22	19.8	5	4.5	6	5.4	290	261.3
MARCH	44	21.7	7	3.4	20	9.8	489	240 8
I. UPPER PENINSULA	7	33.3	.....	.....	5	23.8	35	166.7
II. NORTHERN COUNTIES	6	24.4	.....	.....	1	4.1	60	244.3
III. CENTRAL COUNTIES	17	45.8	2	5.4	4	10.8	100	269.5
IV. SOUTHERN COUNTIES	14	11.6	5	4.2	10	8.3	294	244.2
ALL CITIES	12	15.0	.....	.....	10	12.5	194	242.7
Over 50,000	4	12.6	.....	.....	1	3.2	86	271.9
25,000 to 50,000	1	12.4	.....	.....	2	24.8	19	235.6
10,000 to 25,000	3	16.6	.....	.....	4	22.2	38	210.6
5,000 to 10,000	2	15.4	.....	.....	3	23.1	31	239.1
Under 5,000	2	21.7	.....	.....	.....	.....	20	216.8
COUNTRY	32	26.0	7	5.7	10	8.1	295	239.6
APRIL	17	8 7	5	2.5	15	7·6	361	183.9
I. UPPER PENINSULA	1	4.8	2	9.6	1	4.8	32	153.9
II. NORTHERN COUNTIES	3	12.7	.....	.....	1	4.2	52	220.7
III. CENTRAL COUNTIES	4	11.1	.....	.....	6	16.7	72	200.2
IV. SOUTHERN COUNTIES	9	7.8	3	2.6	7	6.0	205	176.7
ALL CITIES	7	9.1	2	2.6	8	10.3	121	156.5
Over 50,000	4	13.1	.....	.....	1	3.3	56	183.0
25,000 to 50,000	.....	.....	.....	.....	3	38.5	8	102.6
10,000 to 25,000	2	11.5	.....	.....	1	5.7	30	171.9
5,000 to 10,000	1	8.0	1	8.0	3	23.9	14	111.6
Under 5,000	.....	.....	1	11.2	.....	.....	13	145.7
COUNTRY	10	8.4	3	2.5	7	5.9	240	201.6

cities, as originally published in the Michigan Monthly Bulletin of Vital Statistics, 1901.

Diarrheal diseases under 2 years.		Meningitis.		Influenza.		Puerperal septicemia.		Cancer.		Violence.	
Number.	Death rate.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.
39	19.3	51	25.2	206	101.9	15	7.4	108	53.4	143	70.7
7	33.6	7	33.6	1	4.8	1	4.8	5	24.0	32	153.7
6	25.1	6	25.1	12	50.2	2	8.4	11	46.0	11	46.0
11	29.6	6	16.2	34	91.6	3	8.1	15	40.4	22	59.3
15	12.5	32	26.6	159	132.1	9	7.5	77	64.0	78	64.8
16	20.0	23	28.8	91	113.8	6	7.5	54	67.6	66	82.6
5	15.8	11	34.8	35	110.6	2	6.3	28	88.5	21	66.4
1	12.4	.....	.....	12	148.8	1	12.4	2	24.8	7	86.8
3	16.6	7	38.8	12	66.5	.....	.....	7	38.8	15	33.1
4	30.8	2	15.4	17	131.1	2	15.4	12	92.5	10	77.1
3	32.5	3	32.5	15	162.6	1	10.8	5	54.2	13	140.9
23	18.8	28	22.9	115	94.0	9	7.4	54	44.2	77	63.0
34	18.5	31	16.9	378	205.9	18	9.8	121	65.9	100	54.5
8	42.5	1	5.3	10	53.1	4	21.2	11	58.4	18	95.6
4	18.4	5	22.9	29	133.1	2	9.2	7	32.1	8	36.7
5	14.8	9	26.6	95	280.8	2	5.9	19	56.2	11	32.5
17	15.6	16	14.7	244	223.7	10	9.2	84	77.0	63	57.8
15	20.7	14	19.3	117	161.3	9	12.4	68	93.7	40	55.1
7	24.4	7	24.4	32	111.4	4	13.9	19	66.2	18	62.7
1	13.7	2	27.3	20	273.3	.....	.....	8	109.3	4	54.7
3	18.3	.....	.....	24	146.6	2	12.2	23	140.4	10	61.1
2	17.0	2	17.0	25	212.4	2	17.0	9	76.5	7	59.5
2	23.9	3	35.8	16	191.1	1	11.9	9	107.5	1	11.9
19	17.1	17	15.3	261	235.2	9	8.1	53	47.8	60	54.1
50	24.6	57	28.1	320	157.6	37	18.2	112	55.2	126	62.1
8	38.1	6	28.6	4	19.1	3	14.3	3	14.3	16	76.2
10	40.7	6	24.4	36	146.6	8	32.6	12	48.9	19	77.3
8	21.6	11	29.7	55	148.3	8	21.6	15	40.4	22	59.3
24	19.9	34	28.2	225	186.8	18	15.0	82	68.1	69	57.3
17	21.3	28	35.0	105	131.4	8	10.0	52	65.1	41	51.3
11	34.8	12	37.9	41	129.6	2	6.3	20	63.2	17	53.7
.....	.....	3	37.2	13	161.2	1	12.4	6	74.4	2	24.8
2	11.1	5	27.7	24	133.0	2	11.1	8	44.3	7	38.8
2	15.4	4	30.8	12	92.5	2	15.4	11	84.8	6	46.3
2	21.7	4	43.4	15	162.6	1	10.8	7	75.9	9	97.6
33	26.8	29	23.6	215	174.6	29	23.6	60	48.7	85	69.0
57	29.0	63	32.1	142	72.3	26	13.2	101	51.4	132	67.2
14	67.3	8	38.5	2	9.6	4	19.2	5	24.1	29	139.5
7	29.7	9	38.2	13	55.2	1	4.2	14	59.4	9	38.2
12	33.4	11	30.6	34	94.5	4	11.1	15	41.7	13	36.1
24	20.7	35	30.2	93	80.2	17	14.7	67	57.7	81	69.8
25	32.3	30	38.8	33	42.7	11	14.2	41	53.0	64	82.8
12	39.2	12	39.2	10	32.7	5	16.3	17	55.6	17	55.6
4	51.3	3	38.5	5	64.1	.....	.....	4	51.3	4	51.3
4	22.9	6	34.4	5	28.7	.....	.....	5	28.7	15	86.0
2	15.9	7	55.8	8	63.8	4	31.9	12	95.7	17	135.6
3	33.6	2	22.4	5	56.0	2	22.4	3	33.6	11	123.3
22	26.9	33	27.7	109	91.6	15	12.6	60	50.4	68	57.1

Table 14.- Continued.—Mortality in Michigan, by geographical sections and groups of

Population by geographical sections and as urban and rural.	Total reporting population by U. S. census of 1900.	Total deaths reported for 1901.	Annual death rates per 1,000 population.	Still-births.	Important			
					Under 1.		1 to 4.	
					Number.	Per cent.	Number.	Per cent.
MAY	2,390,587	2,785	13.7	121	326	12.2	162	6.1
I.—UPPER PENINSULA	242,907	275	13.4	15	73	28.1	29	11.2
II.—NORTHERN COUNTIES	288,386	329	13.5	15	60	19.1	23	7.3
III.—CENTRAL COUNTIES	439,421	493	13.2	24	74	15.8	37	7.9
IV.—SOUTHERN COUNTIES	1,419,873	1,688	14.0	67	119	7.3	73	4.5
ALL CITIES	932,616	1,184	15.0	74	195	17.6	65	5.9
Over 50,000	373,269	458	14.5	35	95	22.5	26	6.1
25,000 to 50,000	95,153	106	13,1	11	12	12.6	7	7.4
10,000 to 25,000	202,352	273	15.9	13	36	13.8	16	6.2
5,000 to 10,000	153,006	208	16.0	11	33	16.8	12	6.1
Under 5,000	108,866	139	15.1	4	19	14.1	4	3.0
COUNTRY	1,457,941	1,601	13.0	47	131	8.4	97	6.2
JUNE	2,398,540	2,458	12.5	124	420	18.0	143	6.1
I.—UPPER PENINSULA	254,400	275	13.2	24	62	24.7	33	13.1
II.—NORTHERN COUNTIES	286,641	265	11.3	11	53	20.9	19	7.5
III.—CENTRAL COUNTIES	437,423	380	10.6	18	59	16.3	26	7.2
IV.—SOUTHERN COUNTIES	1,420,076	1,538	13.2	71	246	16.8	65	4.4
ALL CITIES	943,184	1,090	14.1	85	202	20.1	65	6.5
Over 50,000	373,269	463	15.1	45	118	28.2	24	5.7
25,000 to 50,000	95,153	99	12.7	9	11	12.2	6	6.7
10,000 to 25,000	212,890	229	13.1	15	29	13.6	15	7.0
5,000 to 10,000	153,006	163	13.0	11	27	17.8	13	8.6
Under 5,000	108,866	136	15.2	5	17	13.0	7	5.3
COUNTRY	1,455,356	1,368	11.5	39	218	16.4	78	5.9
JULY	2,384,927	2,470	12,2	119	502	21.4	155	6.6
I. UPPER PENINSULA	257,386	244	11.2	19	75	33.3	24	10.7
II. NORTHERN COUNTIES	285,803	250	10.3	10	57	23.8	20	8.3
III. CENTRAL COUNTIES	432,479	372	10.1	12	56	15.6	21	5.8
IV. SOUTHERN COUNTIES	1,409,259	1,604	13.4	78	314	20.6	90	5.9
ALL CITIES	943,184	1,174	14.7	69	298	27.0	78	7.1
Over 50,000	373,269	577	18.2	36	195	36.0	47	8.7
25,000 to 50,000	95,153	84	10.4	1	16	19.3	7	8.4
10,000 to 25,000	212,890	225	12.5	17	19	9.1	9	4.3
5,000 to 10,000	153,006	168	13.0	11	45	28.7	7	4.5
Under 5,000	108,866	120	13.0	4	23	19.8	8	6.9
COUNTRY	.....	1,296	10.6	50	204	16.4	77	6.2
AUGUST	2,400,095	2,672	13.1	133	646	25.4	210	8.3
I. UPPER PENINSULA	255,517	381	17.6	25	157	44.1	39	11.0
II. NORTHERN COUNTIES	293,814	295	11.8	15	68	24.3	35	12.5
III. CENTRAL COUNTIES	438,037	450	12.1	18	117	27.1	38	8.8
IV. SOUTHERN COUNTIES	1,421,697	1,546	12.8	75	304	20.7	98	6.7
ALL CITIES	943,184	1,178	14.7	73	333	30.1	84	7.6
Over 50,000	373,269	461	14.6	37	141	33.3	27	6.4
25,000 to 50,000	95,153	133	16.5	8	34	27.2	7	5.6
10,000 to 25,000	212,890	283	15.7	12	72	36.6	31	11.4
5,000 to 10,000	153,006	176	13.6	9	57	34.1	12	7.2
Under 5,000	108,866	125	13.5	7	29	24.6	7	5.9
COUNTRY	1,465,911	1,494	12 0	60	313	21.8	126	8.8

ities, as originally published in the Michigan Monthly Bulletin of Vital Statistics, 1901.

ges.		Deaths and annual death rates per 100,000 population from important causes.									
65 and over.		Pulmonary tuberculosis.		Other tuberculosis.		Typhoid fever.		Diphtheria.		Croup.	
Number.	Per cent.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.
829	31.1	199	98.2	35	17.3	29	14.3	33	16.3	9	4 4
23	8.8	19	92.3	2	9.7	2	9.7	3	14.6	1	4.9
70	23.3	25	102.3	3	12.3	1	4.1	10	40.9	2	8.2
142	30.3	40	107.4	5	13.4	3	8.1	6	16.1	1	2.7
594	36.6	115	95.6	25	20.8	23	19.1	14	11.6	5	4.2
284	25.6	95	120.2	26	32.9	14	17.7	10	12.7	5	6.3
95	22.5	34	107.5	14	44.3	4	12.6	2	6.3	2	6.3
35	36.8	7	86.8	2	24.8	.....	.....	2	24.8	1	12.4
69	26.5	26	151.6	5	29.2	6	35.0	4	23.3	1	5.8
46	23.4	21	161.9	5	38.6	3	23.1	2	15.4	.....	.....
39	28.9	7	75.9	.....	.....	1	10.8	.....	.....	1	10.8
545	35.1	104	84.2	9	7.3	15	12.1	23	18.6	4	3.2
642	27.5	169	86.0	28	14.2	22	11.2	12	6.1	3	1.5
24	9.6	21	100.7	2	9.6	2	9.6	.....	.....	.....	.....
54	21.3	16	68.1	1	4.3	5	21.3	2	8.5	.....	.....
96	26.5	32	89.3	8	22.3	4	11.2	5	13.9	.....	.....
468	31.9	100	85.9	17	14.6	11	9.5	5	4.3	3	2.6
214	21.3	81	104.8	15	19.4	14	18.1	4	5.2	.....	.....
82	19.6	36	117.7	5	16.3	1	3.3	1	3.3	.....	.....
20	22.2	12	153.9	1	12.8	4	51.3	3	38.5	.....	.....
52	24.3	19	108.9	4	22.9	3	17.2	.....	.....	.....	.....
28	18.4	9	71.8	3	23.9	5	39.9	.....	.....	.....	.....
32	24.4	5	56.0	2	22.4	1	11.2	.....	.....	.....	.....
428	32.2	88	73.8	13	10.9	8	6.7	8	6.7	.....	.....
646	27.5	155	76.7	21	10.4	27	13.4	13	6.4	3	1.5
27	12.0	18	82.5	4	18.3	2	9.2	.....	.....	1	4.6
41	17.1	13	53 7	3	12.4	5	20.6	6	24.8	1	4.1
111	30.8	30	81.9	4	10.9	2	5.5	2	5.5	1	2.7
467	30.6	94	78.7	10	8.4	18	15.1	5	4.2	.....	.....
229	20.7	62	77.6	14	17.5	12	15.0	2	2.5	1	1.3
86	15.9	34	107.5	4	12.6	7	22.1	.....	.....	.....	.....
18	21.7	7	86.8	3	37.2	2	24.8	.....	.....	1	12.4
62	29.8	10	55.4	3	16.6	.....	.....	.....	.....	.....	.....
30	19.1	8	61 7	2	15.4	.....	.....	1	7.7	.....	.....
33	28.4	3	32.5	2	21.7	3	32.5	1	10.8	.....	.....
417	33.5	93	76.1	7	5.7	15	12.3	11	9.0	2	1.6
615	24.2	153	74.9	28	13.7	48	23.5	15	7.3	8	3.9
28	7.9	22	101.6	1	4.6	5	23.1	4	18.5	2	9.2
44	15.7	15	60.2	1	4 0	8	32.1	2	8.0	2	8.0
103	23.8	29	78.1	8	21.6	8	21.6	3	8.1	1	2.7
440	29.9	87	72.2	18	14.9	27	22.4	6	5.0	3	2.5
224	20.3	68	85.1	12	15.0	20	25.0	5	6.3	4	5.0
74	17.5	29	91.7	6	19.0	7	22.1	2	6.3	1	3.2
31	24.8	5	62.0	3	37.2	2	24.8	.....	.....	.....	.....
62	22.9	19	105.3	2	11.1	4	22.2	2	11.1	.....	.....
29	17.4	9	60.4	.....	.....	3	23.1	1	7.7	1	7.7
28	23.7	6	65.0	1	10.8	4	43.4	.....	.....	2	21.7
391	27.3	85	68.4	16	12.9	28	22.5	10	8.0	4	3.2

Table 14.—Continued.—Mortality in Michigan, by geographical sections and groups of

Population by geographical sections and as urban and rural.	Scarlet fever.		Measles.		Whooping cough.		Pneumonia	
	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.
MAY	29	14.3	6	3.0	15	7.4	245	120.9
I.—UPPER PENINSULA	6	29.1	2	9.7	3	14.6	25	121.4
II.—NORTHERN COUNTIES	6	24.6	.....	.....	5	20.5	37	151.4
III.—CENTRAL COUNTIES	7	18.8	.....	.....	2	5.4	46	123.5
IV.—SOUTHERN COUNTIES	10	8.3	4	3.3	5	4.2	137	113.9
ALL CITIES	13	16.4	1	1.3	3	3.8	94	118.9
Over 50,000	5	15.8	.....	.....	1	3.2	36	113.8
25,000 to 50,000	1	12.4	.....	.....	1	12.4	4	49.6
10,000 to 25,000	3	17.5	.....	.....	1	5.8	19	110.8
5,000 to 10,000	3	23.1	.....	.....	.....	.....	18	138.8
Under 5,000	1	10.8	1	10.8	.....	.....	17	184.3
COUNTRY	16	12.9	5	4.0	12	9.7	151	122.2
JUNE	17	8.6	12	6.1	9	4.6	143	72.7
I.—UPPER PENINSULA	5	24.0	7	33.6	3	14.4	20	95.9
II.—NORTHERN COUNTIES	2	8.5	.....	.....	1	4.3	23	97.9
III.—CENTRAL COUNTIES	5	13.9	.....	.....	1	2.8	22	61.4
IV.—SOUTHERN COUNTIES	5	4.3	5	4.3	4	3.4	78	67.0
ALL CITIES	9	11.6	5	6.5	3	3.9	63	81.5
Over 50,000	3	9.8	1	3.3	1	3.3	18	58.8
25,000 to 50,000	.....	.....	.....	.....	.....	.....	8	102.6
10,000 to 25,000	2	11.5	1	5.7	2	11.5	18	103.2
5,000 to 10,000	3	23.9	2	15.9	.....	.....	9	71.8
Under 5,000	1	11.2	1	11.2	.....	.....	10	112.1
COUNTRY	8	6.7	7	5.9	6	5.0	80	67.1
JULY	7	3.5	9	4.5	11	5.4	63	31.2
I. UPPER PENINSULA	3	13.8	8	36.7	4	18.3	7	32.1
II NORTHERN COUNTIES	.....	.....	.....	.....	.....	.....	4	16.5
III. CENTRAL COUNTIES	1	2.7	.....	.....	1	2.7	12	32.7
IV. SOUTHERN COUNTIES	3	2.5	1	0.8	6	5.0	40	33.5
ALL CITIES	4	5.0	3	3.8	8	10.0	31	38.8
Over 50,000	2	6.3	.....	.....	4	12.6	12	37.9
25,000 to 50,000	1	12.4	.....	.....	.....	.....	5	62.0
10,000 to 25,000	.....	.....	.....	.....	3	16.6	5	27.7
5,000 to 10,000	.....	.....	.....	.....	1	7.7	6	46.3
Under 5,000	1	10.8	3	32.5	.....	.....	3	32.5
COUNTRY	3	2.5	6	4.9	3	2.5	32	26.2
AUGUST	18	8.8	1	0.5	15	7.3	50	24.5
I.—UPPER PENINSULA	6	27.7	.....	.....	1	4.6	9	41.6
II. NORTHERN COUNTIES	3	12.0	.....	.....	4	16.1	5	20.1
III CENTRAL COUNTIES	1	2.7	1	2.7	1	2.7	13	35.0
IV. SOUTHERN COUNTIES	8	6.6	.....	.....	9	7.5	23	19.1
ALL CITIES	10	12.5	.....	.....	8	10.0	18	22.5
Over 50,000	5	15.8	.....	.....	5	15.8	7	22.1
25,000 to 50,000	.....	.....	.....	.....	.....	.....	1	12.4
10,000 to 25,000	4	22.2	.....	.....	.....	.....	7	38.8
5,000 to 10,000	1	7.7	.....	.....	2	15.4	.....	.....
Under 5,000	.....	.....	.....	.....	1	10.8	3	32.5
COUNTRY	8	6.4	1	0.8	7	5.6	32	25.8

cities, as originally published in the Michigan Monthly Bulletin of Vital Statistics, 1901.

Diarrheal diseases under 2 years.		Meningitis.		Influenza.		Puerperal septicemia.		Cancer.		Violence.	
Number.	Death rate.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.
56	27.6	46	22.7	79	39.0	17	8.4	138	68.1	160	79.0
13	63.2	5	24.3	2	9.7	.....	.....	10	48.6	38	184.6
7	28.6	6	24.6	9	36.8	6	24.6	13	53.2	12	49.1
5	13.4	7	18.8	16	43.0	2	5.4	20	53.7	27	72.5
31	25.8	28	23.3	52	43.2	9	7.5	95	79.0	83	69.0
26	32.9	22	27.8	24	30.4	2	2.5	57	72.1	81	102 5
14	44.3	12	37.9	7	22.1	2	6.3	21	66.4	23	72.7
.....	.....	.....	.....	3	37.2	.....	.....	5	62.0	6	74.4
4	23.3	4	23.3	5	29.2	.....	.....	14	81.6	24	140.0
7	54.0	5	38.6	4	30.8	.....	.....	7	54.0	17	131.1
1	10.8	1	10.8	5	54.2	.....	.....	19	108.4	11	119.2
30	24.3	24	19.4	55	44.5	15	12.1	81	65.6	79	63.9
103	52.4	41	20.9	32	16.3	10	5.1	106	53.9	198	100.7
13	62 3	3	14.4	2	9.6	1	4.8	10	48.0	44	211.0
12	51.1	2	8.5	1	4.3	1	4.3	8	34.0	27	114.9
8	22.3	10	27.9	5	13.9	3	8.4	15	41.8	23	64.1
70	60.1	26	22.3	24	20.6	5	4.3	73	62.7	104	89.3
59	76.3	21	27.2	11	14.2	3	3.9	52	67.3	88	113.8
44	143.8	12	39.2	2	6.5	2	6.5	19	62.1	25	81.7
.....	.....	1	12.8	2	25.6	.....	.....	4	51.3	6	76.9
2	11.5	3	17.2	2	11.5	1	5.7	13	74.5	27	154.7
5	39.9	4	31.9	2	15.9	.....	.....	7	55.8	23	183.4
8	89.7	1	11.2	3	33.6	.....	.....	9	100.9	7	78.4
44	36.9	20	16.8	21	17.6	7	5.9	54	45.3	110	92.2
252	124.7	62	30.7	17	8.4	11	5.4	126	62.3	234	115.8
33	151.3	5	22.9	2	9.2	.....	.....	4	18.3	39	178.8
17	70.2	9	37.2	1	4.1	1	4.1	15	61.9	32	132.1
20	54.6	8	21.8	3	8.2	3	8.2	18	49.1	36	98.2
182	152.4	40	33.5	11	9.2	7	5.9	89	74.5	127	106.3
172	215.2	35	43.8	9	11.3	5	6.3	57	71.3	91	113.8
135	426.8	16	50.6	3	9.5	3	9.5	22	69.5	32	101.2
5	62.0	.....	.....	1	12.4	.....	.....	2	24.8	7	86.8
8	44.3	8	44.3	2	11.1	2	11.1	17	94.2	28	155.2
16	123.4	6	46.3	3	23.1	.....	.....	8	61.7	13	100.3
8	86.7	5	54.2	.....	.....	.....	.....	8	86.7	11	119.2
80	65.5	27	22.1	8	6.5	6	4.9	69	56.5	143	117.0
398	194.9	44	21.6	4	2.0	10	4.9	128	62.7	206	100.9
116	535.7	4	18.5	.....	.....	1	4.6	12	55.4	46	212.4
37	148.6	9	36.1	.....	.....	1	4.0	14	56.2	27	108.4
72	194.0	12	32.3	1	2.7	2	5.4	15	40.4	25	67.3
173	143.6	19	15.8	3	2.5	6	5.0	87	72.2	108	89.6
186	232.7	21	26.3	1	1.3	3	3.8	54	67.6	77	96.3
60	189.7	8	25.3	.....	.....	1	3.2	22	69.5	28	88.5
14	173.6	3	37.2	.....	.....	1	12.4	5	62.0	7	86.8
57	315.9	3	16.6	1	5.5	1	5.5	16	88.7	17	94.2
34	202.2	4	30.8	.....	.....	.....	.....	5	38.6	15	115.7
21	227.6	3	32.5	.....	.....	.....	.....	6	65.0	10	108.4
212	170.7	23	18.5	3	2.4	7	5.6	74	59.6	129	103.8

Table 14.—Continued.—Mortality in Michigan, by geographical sections and groups of

Population by geographical sections and as urban and rural.	Total reporting population by U. S. census of 1900.	Total deaths reported for 1901.	Annual death rates per 1,000 population.	Still-births.	Important			
					Under 1.		1 to 4.	
					Number.	Per cent.	Number.	Per cent.
SEPTEMBER	2,389,844	2,886	14.7	85	714	25.5	262	9.4
I.—Upper Peninsula	254,071	375	18.0	17	152	42.5	31	8.7
II.—Northern Counties	290,581	336	14.1	9	107	32.7	45	13.8
III.—Central Counties	427,530	501	14.3	9	126	25.6	66	13.4
IV.—Southern Counties	1,417,662	1,674	14.4	50	329	20.3	120	7.4
All Cities	913,184	1,191	15.4	56	334	29.4	84	7.4
Over 50,000	373,269	435	14.2	23	113	27.4	35	8.5
25,000 to 50,000	95,153	127	16.3	3	36	29.0	7	5.6
10,000 to 25,000	212,890	304	17.4	17	100	34.8	12	4.2
5,000 to 10,000	153,006	183	14.6	8	44	25.1	20	11.4
Under 5,000	108,866	142	15.9	5	41	29.9	10	7.3
Country	1,446,660	1,695	14.3	29	380	22.8	178	10.7
OCTOBER	2,386,176	2,548	12.6	132	444	18.4	167	6.9
I.—Upper Peninsula	248,137	297	14.1	23	55	20.1	29	10.6
II.—Northern Counties	290,222	264	10.7	15	57	22.9	23	9.2
III.—Central Counties	434,038	427	11.6	19	88	21.6	31	7.6
IV.—Southern Counties	1,413,779	1,560	13.0	75	244	16.4	84	5.7
All Cities	942,519	1,096	13.7	71	196	19.1	81	7.9
Over 50,000	373,269	437	13.8	31	92	22.7	36	8.9
25,000 to 50,000	95,153	113	14.0	9	16	15.4	9	8.7
10,000 to 25,000	212,890	226	12.5	20	34	16.5	16	7.8
5,000 to 10,000	153,006	188	14.5	6	37	20.3	13	7.1
Under 5,000	108,201	132	14.4	5	17	13.4	7	5.5
Country	1,443,657	1,452	11.9	61	248	17.8	86	6.2
NOVEMBER	2,401,425	2,454	12.5	149	346	15.0	177	7.7
I.—Upper Peninsula	255,876	270	12.9	24	55	22.4	34	13.8
II.—Northern Counties	290,838	262	11.0	13	62	24.9	25	10.0
III.—Central Counties	436,829	378	10.6	19	52	14.5	22	6.1
IV.—Southern Counties	1,417,882	1,544	13.3	93	177	12.2	96	6.6
All Cities	943,184	1,110	14.4	84	175	17.1	85	8.3
Over 50,000	373,269	524	17.1	41	93	19.3	44	9.1
25,000 to 50,000	95,153	78	10.0	11	10	14.9	4	6.0
10,000 to 25,000	212,890	209	12.0	15	25	12.9	16	8.2
5,000 to 10,000	153,006	188	15.0	10	36	20.2	16	9.0
Under 5,000	108,866	111	12.4	7	11	10.6	5	4.8
Country	1,458,241	1,344	11.2	65	171	13.4	92	7.2
DECEMBER	2,414,720	2,770	13.5	141	387	14.7	182	6.9
I.—Upper Peninsula	258,952	268	12.2	24	61	25.0	30	12.3
II.—Northern Counties	292,307	279	11.3	10	53	19.7	22	8.2
III.—Central Counties	440,478	428	11.5	25	55	13.6	28	6.9
IV.—Southern Counties	1,422,981	1,795	14.9	82	218	12.7	102	6.0
All Cities	943,184	1,264	15.8	86	184	15.6	95	8.1
Over 50,000	373,269	557	17.6	48	82	16.1	53	10.4
25,000 to 50,000	95,153	105	13.0	9	9	9.4	9	9.4
10,000 to 25,000	212,890	268	14.9	10	44	17.1	19	7.4
5,000 to 10,000	153,006	197	15.2	15	25	13.7	7	3.8
Under 5,000	108,866	137	14.8	4	24	18.0	7	5.3
Country	1,471,536	1,506	12.1	55	203	14.0	87	6.0

ities, as originally published in the Michigan Monthly Bulletin of Vital Statistics, 1901.

ges.		Deaths and annual death rates per 100,000 population from important causes.									
65 and over.		Pulmonary tuberculosis.		Other tuberculosis.		Typhoid fever.		Diphtheria.		Croup.	
Number.	Per cent.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.
697	24.9	142	72.5	26	13.3	93	47.5	40	20.4	7	3.6
36	10.1	21	100.8	4	19.2	15	72.0	15	72.0	.....	.....
52	15.9	10	42.0	2	8.4	16	67.2	8	33.6	1	4.2
118	24.0	19	54.2	6	17.1	19	54.2	3	8.6	1	2.9
491	30.2	92	79.2	14	12.0	43	37.0	14	12.0	5	4.3
229	20.2	60	77.6	12	15.5	42	54.3	19	24.6	5	6.5
73	17.7	20	65.4	4	13.1	13	42.5	2	6.5	2	6.5
26	21.0	4	51.3	1	12.8	7	89.8	.....	.....	.....	.....
54	18.8	16	91.7	3	17.2	11	63.0	3	17.2	1	5.7
44	25.1	15	119.6	3	23.9	4	31.9	7	55.8	2	15.9
32	23.4	5	56.0	1	11.2	7	78.4	7	78.4	.....	.....
468	28.1	82	69.2	14	11.8	51	43.0	21	17.7	2	1.7
674	27.9	158	78.1	31	15.3	88	43.5	37	18.3	12	5.9
41	15.0	11	52.3	3	14.3	14	66.6	4	19.0	2	9.5
42	16.9	21	85.4	2	8.1	14	56.9	5	20.3	2	8.1
103	25.2	27	73.4	4	10.9	13	35.3	14	38.1	2	5.4
488	32.9	99	82.6	22	18.4	47	39.2	14	11.7	6	5.0
237	23.1	72	90.1	16	20.0	47	58.8	16	20.0	7	8.8
83	20.4	31	98.0	6	19.0	18	56.9	5	15.8	2	6.3
26	25.0	7	86.8	2	24.8	5	62.0	3	37.2	2	24.8
47	22.8	15	83.1	2	11.1	7	38.8	5	27.7	.....	.....
41	22.5	15	115.7	5	38.6	10	77.1	1	7.7	3	23.1
40	31.5	4	43.6	1	10.9	7	76.3	2	21.8	.....	.....
437	31.4	86	70.3	15	12.3	41	33.5	21	17.2	5	4.1
659	28.6	137	69.6	29	14.7	79	40.1	41	20.8	18	9.1
27	11.0	21	100.1	5	23.8	10	47.7	8	38.1	4	19.1
39	15.7	10	41.9	3	12.6	11	46.1	4	16.8	2	8.4
124	34.5	13	36.3	5	14.0	13	36.3	8	22.3	2	5.6
469	32.3	93	80.0	16	13.8	45	38.7	21	18.1	10	8.6
245	23.9	67	86.7	14	18.1	32	41.4	21	27.2	9	11.6
98	20.3	40	139.7	5	16.3	11	36.0	10	32.7	2	6.5
19	28.4	2	25.6	3	38.5	4	51.3	.....	.....	2	25.6
52	26.8	7	40.1	5	28.7	6	34.4	6	34.4	2	11.5
39	21.9	9	71.8	.....	.....	6	47.8	3	23.9	2	15.9
37	35.6	9	100.9	1	11.2	5	56.0	2	22.4	1	11.2
414	32.4	70	58.6	15	12.5	47	30.3	20	16.7	9	7.5
553	32.4	151	73.8	18	8.8	53	25.9	33	16.1	21	10.3
24	9.8	11	50.1	3	13.7	12	54.7	3	13.7	1	4.6
61	22.7	12	48.4	1	4.0	7	28.3	5	20.2	5	20.2
134	33.3	23	61.6	3	8.0	8	21.4	10	26.8	1	2.7
634	37.0	105	87.1	11	9.1	26	21.6	15	12.4	14	11.6
295	25.0	77	96.3	8	10.0	24	30.0	12	15.0	9	11.3
115	22.6	35	110.6	4	12.6	6	19.0	3	9.5	6	19.0
34	35.4	4	49.6	.....	.....	2	24.8	3	37.2	.....	.....
59	22.9	12	66.5	2	11.1	12	66.5	2	11.1	1	5.5
53	29.1	17	131.1	1	7.7	3	23.1	3	23.1	1	7.7
34	25.6	9	97.6	1	10.8	1	10.8	1	10.8	1	10.8
558	28.5	74	59.3	10	8.0	29	23.3	21	16.8	12	9.6

Table 14.—Concluded.—Mortality in Michigan, by geographical sections and groups of

Population by geographical sections and as urban and rural.	Scarlet fever.		Measles.		Whooping cough.		Pneumonia.	
	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.
SEPTEMBER	6	3.1	3	1.5	17	8.7	87	44.4
I.—UPPER PENINSULA	.....	.....	1	4.8	.....	.....	14	67.2
II.—NORTHERN COUNTIES	1	4.2	.....	.....	.....	.....	12	50.4
III.—CENTRAL COUNTIES	1	2.9	1	2.9	3	8.6	20	57.1
IV.—SOUTHERN COUNTIES	4	3.4	1	0.9	14	12.0	41	35.3
ALL CITIES	3	3.9	2	2.6	10	12.9	41	53.0
Over 50,000	3	9.8	1	3.3	9	29.4	15	49.0
25,000 to 50,000	.....	.....	.....	.....	.....	.....	4	51.3
10,000 to 25,000	.....	.....	1	5.7	1	5.7	14	80.2
5,000 to 10,000	.....	.....	.....	.....	.....	.....	2	15.9
Under 5,000	.....	.....	.....	.....	.....	.....	6	67.2
COUNTRY	3	2.5	1	0.8	7	5.9	46	38.8
OCTOBER	18	8.9	2	1.0	5	2.5	143	70.7
I.—UPPER PENINSULA	.....	.....	1	4.8	.....	.....	15	71.3
II.—NORTHERN COUNTIES	2	8.1	.....	.....	.....	.....	14	56.9
III.—CENTRAL COUNTIES	1	2.7	1	2.7	2	5.4	26	70.7
IV.—SOUTHERN COUNTIES	15	12.5	.....	.....	3	2.5	88	73.4
ALL CITIES	11	13.8	1	1.3	2	2.5	80	100.2
Over 50,000	5	15.8	.....	.....	.....	.....	42	132.8
25,000 to 50,000	.....	.....	.....	.....	1	12.4	8	99.2
10,000 to 50,000	3	16.6	1	5.5	.....	.....	14	77.6
5,000 to 10,000	3	23.1	.....	.....	.....	.....	11	84.8
Under 5,000	.....	.....	.....	.....	1	10.9	5	54.5
COUNTRY	7	5.7	1	0.8	3	2.5	63	51.5
NOVEMBER	27	13.7	6	3.0	8	4.1	206	104.7
I.—UPPER PENINSULA	3	14.3	3	14.3	.....	.....	23	109.7
II.—NORTHERN COUNTIES	7	29.4	.....	.....	3	12.6	22	92.3
III.—CENTRAL COUNTIES	5	14.0	.....	.....	1	2.8	32	89.4
IV.—SOUTHERN COUNTIES	12	10.3	3	2.6	4	3.4	129	111.0
ALL CITIES	12	15.5	4	5.2	2	2.6	115	148.8
Over 50,000	8	26.1	2	6.5	1	3.3	61	199.4
25,000 to 50,000	.....	.....	.....	.....	.....	.....	5	64.1
10,000 to 25,000	1	5.7	.....	.....	.....	.....	20	114.6
5,000 to 10,000	3	23.9	2	15.9	.....	.....	17	135.6
Under 5,000	.....	.....	.....	.....	1	11.2	12	134.5
COUNTRY	15	12.5	2	1.7	6	5.0	91	76.1
DECEMBER	39	19.1	14	6.8	13	6.4	330	161.3
I.—UPPER PENINSULA	5	22.8	4	18.2	3	13.7	33	150.4
II.—NORTHERN COUNTIES	6	24.2	.....	.....	2	8.1	33	133.2
III.—CENTRAL COUNTIES	6	16.1	1	2.7	3	8.0	55	147.3
IV.—SOUTHERN COUNTIES	22	18.2	9	7.5	5	4.1	209	173.3
ALL CITIES	21	26.3	11	13.8	7	8.8	157	196.4
Over 50,000	14	44.3	9	28.5	2	6.3	73	230.8
25,000 to 50,000	3	37.2	.....	.....	1	12.4	11	136.4
10,000 to 25,000	1	5.5	1	5.5	2	11.1	42	232.8
5,000 to 10,000	1	7.7	1	7.7	1	7.7	16	123.4
Under 5,000	2	21.7	.....	.....	1	10.8	15	162.6
COUNTRY	18	14.4	3	2.4	6	4.8	173	138.7

cities, as originally published in the Michigan Monthly Bulletin of Vital Statistics, 1901.

Diarrheal diseases under 2 years.		Meningitis.		Influenza.		Puerperal septicemia.		Cancer.		Violence.	
Number.	Death rate.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.	Number.	Death rate.
441	225.1	48	24.5	9	4.6	8	4.1	124	63.3	196	100.1
87	417.8	6	28.8	.....	.....	2	9.6	8	38.4	43	206.5
73	306.5	11	46.2	1	4.2	1	4.2	14	58.8	30	126.0
92	262.5	11	31.4	2	5.7	2	5.7	20	57.1	26	74.2
189	162.6	20	17.2	6	5.2	3	2.6	82	70.6	97	83.5
187	241.9	15	19.4	6	7.8	.....	.....	49	63.4	73	94.4
58	189.6	6	19.6	.....	.....	.....	.....	20	65.4	21	68.6
20	256.4	.....	.....	.....	.....	.....	.....	8	102.6	9	115.4
55	315.2	4	22.9	1	5.7	.....	.....	11	63.0	26	149.0
32	255.2	3	23.9	3	23.9	.....	.....	6	47.8	9	71.8
22	246.6	2	22 4	2	22.4	.....	.....	4	44.8	8	89.7
254	214.2	33	27.8	3	2.5	8	6.7	75	63.2	123	103.7
158	78.1	31	15.3	13	6.4	9	4.5	126	62.3	190	94.0
17	80.8	5	23.8	1	4.8	3	14.3	13	61.8	40	190.2
20	81.3	4	16.3	1	4.1	2	8.1	2	8.1	26	105.7
39	106.0	4	10.9	1	2.7	2	5.4	24	65.2	30	81.6
82	68.4	18	15.0	10	8.3	2	1.7	87	72.6	94	78.5
52	65.1	18	22.5	5	6.3	1	1.3	63	78.9	73	91.4
17	53.7	6	19.0	2	6.3	.....	.....	25	79.0	26	82.2
4	49.6	2	24.8	.....	.....	.....	.....	6	74.4	5	62.0
11	61·0	4	22.2	1	5.5	.....	.....	15	83.1	15	83.1
10	77.1	5	38.6	2	15.4	1	7.7	10	77.1	14	108.0
10	109.1	1	10.9	.....	.....	.....	.....	7	76.3	13	141.8
106	86.6	13	10.6	8	6 5	8	6.5	63	51.5	117	95.6
42	21.3	22	11.2	11	5.6	10	5.1	127	64.5	194	98 6
8	38.1	6	28.6	.....	.....	.....	.....	8	38.1	32	152 6
8	33.6	1	4.2	1	4.2	3	12.6	9	37.8	12	50.3
6	16.8	3	8.4	3	8.4	1	2.8	18	50.3	31	86.6
20	17.2	12	10.3	7	6.0	6	5.2	92	79.2	119	102.4
19	24.6	11	14.2	3	3.9	5	6.5	44	56.9	99	128.1
10	32.7	5	16.3	.....	.....	2	6.5	16	52.3	59	192.8
1	12.8	.....	.....	.....	.....	1	12.8	1	12.8	4	51.3
3	17.2	2	11.5	1	5.7	.....	.....	11	63.0	14	80.2
4	31.9	2	15.9	2	15.9	1	8.0	11	87.7	14	111.6
1	11.2	2	22.4	.....	.....	1	11.2	5	56.0	8	89.7
23	19.2	11	9.2	8	6.7	5	4.2	83	69.4	95	79.5
40	19.5	37	18.1	43	21.0	12	5.9	126	61.6	157	76.7
4	18.2	5	22.8	1	4.6	1	4.6	5	22.8	32	145 8
5	20.2	8	32.3	4	16.1	4	16.1	6	24.2	20	80.7
7	18.8	1	2.7	8	21.4	1	2.7	20	53.6	21	56.3
24	19.9	23	19.1	30	24.9	6	5.0	95	78.8	84	69.7
17	21.3	22	27.5	15	18.8	4	5.0	67	83.8	70	87.6
9	28.5	13	41.1	6	19.0	1	3.2	33	104.3	16	50.6
3	37.2	2	24.8	2	24.8	.....	.....	6	74.4	7	86 8
2	11.1	4	22.2	1	5.5	1	5.5	9	49.9	19	105.3
3	23.1	2	15.4	4	30.8	2	15.4	5	38.6	20	154.2
.....	.....	1	10.8	2	21.7	.....	.....	14	151.7	8	86.7
23	18.4	15	12.0	28	22.5	8	6.4	59	47.3	87	69.8

DEATHS AND DEATH RATES, BY GEOGRAPHICAL SECTIONS, 1901.

It was shown in the discussion of a preceding table (Table 8) that the monthly death rates, as printed in the *Michigan Monthly Bulletins of Vital Statistics* during the year 1901, were practically correct, so far as the addition of delayed returns is concerned, but the correspondence of the rates as originally printed is not quite as close as usual owing to the fact that allowance was not made for increased population in 1901 in computing the figures in the Bulletins. It is easy to compute a coefficient of correction should it be desired to compare the rates in Table 14 with those given for other years.

The geographical sections shown in this table were explained in the report for 1898 and illustrated by a map, and are the same that are referred to in the meteorological statistics given in subsequent pages of the present report.

In Table 14, besides the total death rates for the State, geographical sections and groups of cities, together with the townships and villages taken together under the designation "country," important ratios are given for the number of deaths returned of infants under one year of age, children aged one to four years, both inclusive, and elderly persons aged sixty-five years and over, for each month of the year. The table also shows the deaths returned and the death rates based thereon for certain of the most important diseases, including especially those dangerous communicable diseases that the State Board of Health is required by law to restrict.

DEATHS IN CITIES OF MICHIGAN, 1901.

Table 15 shows the number of deaths reported for 1901 from each city of the State, together with the population as given by the United States census of 1900. The total urban population of the State, including in this designation such small towns as Gladwin, 775, Harrison, 615, Mackinac Island, 665, and North Muskegon, 530, places which have few of the requisites of a city except the possession of a city charter, is 9[illegible] and the total number of deaths returned from these cities for the year was 13,837. The death rate was 14.4 per thousand, estimated, which may be compared with the rural death rate of 12.8. It should be remembered in making comparisons with the results of the United States [illegible] that the limit used by the latter for inclusion in the list of cities [illegible] population, and hence that the list of cities under 5,000 popula[illegible] the State entirely disappears from consideration.

The group of cities over 50,000 population consists of only two, [illegible] with a death rate of 15.1, and Grand Rapids with a death rate [illegible] the year. Cities from 25,000 to 50,000, which list has been [illegible] the last census by the addition of Jackson, show the [illegible] mortality in the State, being 13.7 per thousand estimated

[illegible] cities from 10,000 to 25,000 population has a rate of [illegible] Kalamazoo having the highest, 18.8 per thousand, [illegible] lowest, 9.5 per thousand. Two of the cities in this list, [illegible] were rejected by the United States census author[illegible] that their registration returns were not suffi[illegible] included.

The cities from 5,000 to 10,000 population show a death rate of 14.6, which is the same as the group of cities over 50,000 population. The maximum death rate in this group, 18.4 per thousand, is that of the city of Traverse City, and the minimum mortality belongs to Holland, which has a rate of 11.8 per thousand.

Cities under 5,000 population, which are hardly included in the class of cities as usually studied in registration reports, show a higher mortality, 14.8, than the preceding group. There are, moreover, greater variations in the rates for the individual cities. Stanton shows a rate of 25.1 per thousand and Belding a rate of only 9.3 per thousand.

Table 15. Cities of Michigan, grouped in order of population by U. S. census of 1900, with deaths and death rates per 1,000 estimated population. (Stillbirths excluded.)

Cities.	Population by U. S. census of 1900.	Deaths returned 1901.	Death rate per 1,000 estimated population.*
TOTAL CITIES.	943,184	13,837	14.4
CITIES OVER 50,000 POPULATION	373,269	5,603	14.6
Detroit	285,704	4,449	15.1
Grand Rapids	87,565	1,154	13.0
CITIES FROM 25,000 TO 50,000 POPULATION.	95,153	1,297	13.7
Bay City	27,628	351	12.9
Jackson	25,180	344	13.4
Saginaw	42,345	602	14.3
CITIES FROM 10,000 TO 25,000 POPULATION.	212,890	3,032	14.0
Alpena	11,802	162	13.8
Ann Arbor	14,509	218	14.5
Battle Creek	18,563	304	15.9
Flint	13,103	194	14.3
Ishpeming	13,255	154	11.4
Kalamazoo	24,404	470	18.8
Lansing	16,485	224	13.5
Manistee	14,260	137	9.5
Marquette	10,058	128	12.7
Menominee	12,818	157	12.2
Muskegon	20,818	251	12.0
Port Huron	19,158	267	13.8
Sault Ste. Marie	10,538	199	17.9
West Bay City	13,119	167	12.6
CITIES FROM 5,000 TO 10,000 POPULATION.	153,096	2,287	14.6
Adrian	9,654	150	15.5
Benton Harbor	6,562	85	12.6
Cadillac	5,997	74	12.0
Cheboygan	6,489	87	13.6
Coldwater	6,216	90	14.1
Escanaba	9,549	163	16.7
Holland	7,790	96	11.8
Ionia	5,209	76	14.5
Iron Mountain	9,242	131	13.8
Ironwood	9,705	145	14.8
Ludington	7,166	101	14.5
Monroe	5,043	66	13.3
Mt. Clemens	6,576	113	16.8
Negaunee	6,935	95	13.4
Owosso	8,696	108	12.3
Petoskey	5,285	76	13.7
Pontiac	9,769	166	16.3
St. Joseph	5,155	84	16.0
Traverse City	9,407	185	18.4
Wyandotte	5,183	93	17.4
Ypsilanti	7,378	104	13.7
CITIES UNDER 5,000 POPULATION	108,866	1,618	14.8
Albion	4,519	53	11.9
Au Sable	1,116	28	* *25.1*
Belding	3,282	31	9.3
Bessemer	3,911	74	17.9
Big Rapids	4,686	83	18.0
Charlotte	4,062	74	18.3
Clare	1,326	23	17.5
Corunna	1,510	23	15.3
Crystal Falls	3,231	35	9.8
Dowagiac	4,151	48	11.3
East Tawas	1,736	19	* *10.9*
Eaton Rapids	2,103	31	14.8
Gladstone	3,380	36	10.0
Gladwin	775	9	11.9
Grand Haven	4,743	54	11.6
Grand Ledge	2,161	34	15.8
Greenville	3,381	44	12.8
Harrison	647	8	12.7
Hastings	3,172	35	10.9
Hillsdale	4,151	72	17.3
Hudson	2,403	37	15.3
Lapeer	3,297	77	23.0
Mackinac Island	665	7	* *10.5*
Manistique	4,126	84	18.8
Marine City	3,829	77	19.8
Marshall	4,370	63	14.5
Mason	1,828	22	12.0
Midland	2,363	42	17.9
Mt. Pleasant	3,662	39	10.4
Niles	4,287	74	17.4
North Muskegon	513	6	* *11.7*
Norway	4,170	54	12.7
St. Clair	2,543	38	15.0
St. Ignace	2,271	41	17.8
St. Louis	1,989	30	15.4
Stanton	1,234	13	10.6
Sturgis	2,465	48	20.0
Tawas City	1,228	12	9.8
Three Rivers	3,550	40	11.1

* Population estimated by adding average annual increase from State census of 1894 to U. S. Census of 1900, *except for certain small cities* (rates in *italics*) with decreasing population in which *the last census figures were used as a basis.*

SECTION II.—CAUSES OF DEATH IN MICHIGAN DURING THE YEAR 1901.

In Table 16 may be found a statement of the total number of deaths from each cause separately compiled in this report. The classification numbers as given in the left-hand column of the table are those of the International Classification. of which the table represents a somewhat condensed form. Thus under the head of "Other epidemic diseases," for which there were only 3 deaths returned for the year, are included the following International titles: 2, Typhus fever; 3, Relapsing fever; 11, Miliary fever; 12, Asiatic cholera; 15, Bubonic plague; 16, Yellow fever; 17, Leprosy; and the remaining list of diseases classifiable under title 19 except chickenpox, German measles and mumps which are specially stated. On the other hand certain titles of the International system are subdivided, as for example title 99. Other diseases of the respiratory system, from which the deaths reported from hemorrhage of the lungs (usually an equivalent of pulmonary phthisis) are distinguished. The list the intermediate form used for certain tables of the United States Census and explained in the "Manual of the International Classification of Causes of Death" published by the Census Bureau in 1902.

The details relative to distribution of the deaths from each cause by sex, ages, months of deaths, and counties in which the deaths occurred may be found in Tables III and IV, beginning on pages 18 and 36 of this report, respectively.

In Table 17 may be found in still more condensed form with reference to the list of causes, and arranged by geographical sections of the State, an exhibit of the mortality by months and groups of ages (individual years under five) for the year.

In comparing the figures found in any of the tables relating to causes of death as given in the present report with those of the corresponding tables for the years 1898-1900, it should be remembered that the revised Bertillon system, now known as the International Classification, was adopted for the statistics of the year 1901, and that there are some minor differences between it in its present form and that of the original form in which it appeared. Also, contrary to the requirements of the Bertillon system, the aggregate deaths as given in these reports prior to 1901 included stillbirths; these are now entirely omitted from the tables of deaths. Care should therefore be used in using data for comparative purposes in the different years. As soon as possible a table exhibiting the changes in deaths registered, with proper allowance for differences in methods of classification, will be prepared.

ible 16.—Deaths in Michigan during the year 1901, statistically classified by the International system, with rates per 100,000 population.

Classification number.	Causes of death, 1901.	Number of deaths.	Death rates per 100,000 population.
	ALL CAUSES	32,834	1339.7
	I. GENERAL DISEASES	*8,401*	*342.8*
	(*A. Epidemic diseases.*)	*3,314*	*135.2*
1	Typhoid fever	615	25.1
	Typho-malarial fever	30	1.2
4	Malaria fever	109	4.4
5	Smallpox	27	1.1
6	Measles	79	3.2
7	Scarlet fever	312	12.7
8	Whooping cough	163	6.7
9	Diphtheria	359	14.6
	Croup	55	2.2
	Membranous croup	88	3.6
10	Influenza	1,099	44.8
13	Cholera nostras	38	1.6
14	Dysentery	212	8.6
18	Erysipelas	116	4.7
(19)	Chickenpox	2	0.1
	German measles	2	0.1
	Mumps	5	0.2
11, 12, 15, 16, 17, 19	Other epidemic diseases	3	0.1
	(*B. Other general diseases*)	*5,087*	*207.6*
20	Septicemia	116	4.7
27	Tuberculosis of lungs	2,152	87.8
26	Tuberculosis of larynx	22	0.9
28	Tuberculous meningitis	93	3.8
29	Abdominal tuberculosis	132	5.4
30	Pott's disease	29	1.2
31	Tuberculous abscess	3	0.1
32	White swelling	17	0.7
33	Tuberculosis of other organs	38	1.6
34	General tuberculosis	46	1.9
35	Scrofula	16	0.7
36, 37, 38	Venereal diseases	88	3.6
39	Cancer of mouth	38	1.6
40	Cancer of stomach and liver	612	25.0
41	Cancer of intestines	137	5.6
42	Cancer of genital organs	237	9.7
43	Cancer of breast	149	6.1
44	Cancer of skin	76	3.1
45	Cancer of other or unspecified organs	235	9.6
46	Tumors	40	1.6
47, 48	Rheumatism	221	9.0
50	Diabetes	264	10.8
53, 54	Anemia	195	8.0
56	Alcoholism	62	2.5
57, 58, 59	Chronic poisonings	18	0.7
22, 23, 24, 49, 51, 52, 55	Other general diseases	51	2.1
	II. DISEASES OF THE NERVOUS SYSTEM	*4,012*	*163.7*
60	Encephalitis	82	3.3
61	Meningitis	427	17.4
62	Locomotor ataxia	39	1.6
63	Other diseases of spinal cord	131	5.3
64	Apoplexy	1,243	50.7
65	Softening of brain	105	4.3
66	Paralysis	799	32.6
67	General paralysis of insane	139	5.7
68	Other forms of mental disease	80	3.3
(74)	Other diseases of brain	98	4.0
69	Epilepsy	177	7.2
70, 71	Convulsions	550	22.4
72	Tetanus	31	1.3
73, 74, 75, 76	Other diseases of nervous system	111	4.5
	III. DISEASES OF THE CIRCULATORY SYSTEM	*3,291*	*134.3*
77	Pericarditis	55	2.2
78	Endocarditis	102	4.2
79	Heart disease	2,691	109.8

Table 16.—Continued.—Deaths in Michigan during the year 1901, statistically classified by the International system, with rates per 100,000 population.

Classification number.	Causes of death, 1901.	Number of deaths.	Death rates per 100 000 population.
80	Angina pectoris	192	7.8
81	Diseases of arteries	117	4.8
82	Embolism and thrombosis	60	2.4
83	Diseases of veins	14	0.6
84	Diseases of lymphatics	5	0.2
85, 86	Other diseases of circulatory system	55	2.2
	IV. DISEASES OF RESPIRATORY SYSTEM	*4,377*	*178.6*
88	Laryngitis	31	1.3
	Other diseases of larynx	29	1.2
89	Diseases of the thyroid body	11	0.4
90	Acute bronchitis	535	21.8
91	Chronic bronchitis	334	13.6
92	Bronchopneumonia	489	20.0
93	Pneumonia	2,412	98.4
94	Pleurisy	89	3.6
95	Congestion of lungs	194	7.9
96	Gangrene of lungs	11	0.4
97, 98	Asthma and emphysema	122	5.0
(99)	Hemorrhage of lungs	39	1.6
87, 99	Other diseases of respiratory system	81	3.3
	V. DISEASES OF DIGESTIVE SYSTEM	*4,354*	*177.7*
100	Diseases of mouth	28	1.1
(101)	Tonsilitis	30	1.2
101, 102	Other diseases of pharynx	29	1.2
103	Ulcer of stomach	75	3.1
104	Gastritis	189	7.7
	Other diseases of stomach	244	10.0
[314]	Dentition	9	0.4
105	Diarrhea and enteritis (under 2 years)	1,768	72.1
106	Diarrhea and enteritis (over 2 years)	526	21.5
108	Hernia	93	3.8
	Obstruction of intestines	239	9.8
107, 109	Other diseases of intestines	76	3.1
110	Acute yellow atrophy of liver	18	0.7
111	Hydatid tumors of liver	0	.....
112	Cirrhosis of liver	211	8.6
113	Biliary calculi	49	2.0
114	Other diseases of liver	220	9.0
115	Diseases of spleen	7	0.3
116	Peritonitis	277	11.3
118	Appendicitis	263	10.7
117	Other diseases of digestive system	3	0.1
	VI. DISEASES OF THE GENITO-URINARY SYSTEM	*1,648*	*67.2*
119	Acute nephritis	71	2.9
120	Bright's disease	1,050	42.8
121	Other diseases of kidneys	107	4.4
122	Calculi of urinary tract	14	0.6
123	Diseases of bladder	138	5.6
129	Uterine tumor	42	1.7
127, 128, 130	Other diseases of uterus	58	2.4
131	Ovarian tumor	49	2.0
(132)	Diseases of tubes	2	0.1
124, 125, 126, 132, 133	Other diseases of genito-urinary system	117	4.8
	VII. CHILDBIRTH	*531*	*21.7*
137	Puerperal septicemia	267	10.9
138	Puerperal convulsions	81	3.3
134, 135, 136, 139, 140, 141	Other causes incident to childbirth	183	7.5
	VIII. DISEASES OF THE SKIN	*172*	*7.0*
142	Gangrene	98	4.0
143	Carbuncle	12	0.5
144	Abscess	38	1.6
145	Other diseases of skin	24	1.0
	IX. DISEASES OF THE ORGANS OF LOCOMOTION	*46*	*1.9*
146	Diseases of bones	41	1.7
147	Diseases of joints	3	0.1
148, 149	Other diseases of locomotor system	2	0.1

Table 16.—Concluded.—Deaths in Michigan during the year 1901, statistically classified by the International system, with rates per 100,000 population.

Classification number.	Causes of death.	Number of deaths.	Death rates per 100,000 population.
	X. MALFORMATIONS	*306*	*12.5*
150	Hydrocephalus	54	2.2
	Congenital malformation of heart (cyanosis)	101	4.1
	Other congenital malformations	151	6.2
	XI. EARLY INFANCY	*1,201*	*49.0*
(151)	Premature birth	524	21.4
151, 152, 153	Congenital debility	677	27.6
	XII. OLD AGE	*1,193*	*48.7*
154	Old age	1,193	48.7
	XIII. VIOLENCE	*2,251*	*91.8*
155	Suicide by poison	76	3.1
156	Suicide by asphyxia	0	.....
157	Suicide by hanging	50	2.0
158	Suicide by drowning	20	0.8
159	Suicide by fire arms	54	2.2
160	Suicide by cutting instruments	18	0.7
161	Suicide by jumping from high places	1	0.0
162	Suicide by crushing	2	0.1
163	Suicide by other or unspecified means	17	0.7
164, 165	Fractures and dislocations	223	9.1
167	Burns and scalds	178	7.3
169	Heat and sunstroke	55	2.2
170	Cold and freezing	14	0.6
(171)	Lightning	28	1.1
172	Drowning	299	12.2
174	Inhalation of poisonous gases	16	0.7
175	Other accidental poisonings	79	3.2
166	Accidental gunshot wounds	99	4.0
	Injuries by machinery	57	2.3
	Injuries in mines and quarries	97	4.0
	Railroad accidents and injuries	244	10.0
	Injuries by vehicles and horses	70	2.9
	Injuries by electric cars	21	0.9
(176)	Suffocation	30	1.2
(166, 168, 171.) 173, 176	Other accidental injuries	391	16.0
(176)	Injuries at birth	77	3.1
(176)	Homicide	35	1.4
	XIV. ILL-DEFINED DISEASES	*1,051*	*42.9*
177	Dropsy	192	7.8
(179)	Heart failure	128	5.2
178, 179	Other ill-defined diseases	420	17.1
Unknown	Unknown or unspecified	311	12.7

Table 17. Causes of death in Michigan, by months and age

Line number.	Causes of death, 1901.	Total deaths, 1901.	Rate per 100,000 estimated population.	Months of death, 1901. Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.
1	ALL CAUSES	32,834	1,339.7	3,128	3,089	3,390	2,894	2,720	2,354	2,395	2,573	2,847	2,435	2,354
2	Typhoid fever	645	26.3	73	36	45	35	31	24	26	49	96	91	83
3	Malarial fever	109	4.4	4	6	6	6	11	9	10	14	15	14	6
4	Smallpox	27	1.1	1	1	3	1	1	6	2	1	4	2	2
5	Measles	79	3.2	3	5	10	6	5	12	10	1	3	2	8
6	Scarlet fever	312	12.7	33	42	45	21	31	17	8	17	6	21	29
7	Whooping cough	163	6.7	15	13	20	15	14	10	14	16	18	4	10
8	Diphtheria and croup	502	20.5	71	47	36	41	41	18	16	22	49	50	60
9	Influenza	1,099	44.8	179	343	292	117	65	22	13	4	6	13	13
10	Dysentery	212	8.6	5	4	4	3	3	7	17	54	73	25	14
11	Erysipelas	116	4.7	8	12	21	16	15	9	5	4	4	7	3
12	Other epidemic diseases	50	2.0	1	2	3	1	1	3	4	12	16	3	2
13	Tuberculosis of lungs	2,152	87.8	246	176	217	209	210	178	165	159	145	159	141
14	Other forms of tuberculosis	380	15.5	31	21	41	45	40	29	25	26	26	36	30
15	Cancer	1,484	60.5	110	122	123	103	142	110	125	129	134	124	129
16	Rheumatism	221	9.0	24	20	30	29	17	18	15	12	17	13	14
17	Diabetes	264	10.8	31	23	28	23	18	20	19	14	16	21	26
18	Other general diseases	586	23.9	42	41	50	52	59	61	44	43	55	48	47
19	Meningitis	427	17.4	37	21	46	41	42	36	51	37	42	25	20
20	Apoplexy	1,243	50.7	109	111	125	110	108	93	73	91	97	105	99
21	Paralysis	799	32.6	76	81	86	76	61	63	56	41	67	68	56
22	Convulsions	550	22.4	49	46	68	49	45	58	56	34	39	30	39
23	Other nervous diseases	993	40.5	82	98	101	87	87	81	81	71	78	65	79
24	Heart disease	2,691	109.8	246	240	236	259	246	212	201	196	209	183	222
25	Other circulatory diseases	600	24.5	50	56	60	42	67	52	42	35	51	46	57
26	Bronchitis	869	35.5	133	116	134	99	64	52	24	22	36	40	65
27	Bronchopneumonia	489	20.0	74	69	101	50	32	24	10	9	10	31	29
28	Pneumonia	2,412	98.4	334	397	372	311	197	121	54	39	68	96	155
29	Other respiratory diseases	607	24.8	76	61	56	66	50	31	32	31	39	60	42
30	Diseases of stomach	508	20.7	45	33	48	48	71	34	40	39	41	36	36
31	Diarrhea and enteritis, under 2 years	1,768	72.1	47	40	55	57	61	107	255	430	451	169	50
32	Diarrhea and enteritis, over 2 years	526	21.5	30	28	35	33	31	32	40	81	100	58	31
33	Hernia and obstr. of bowels	332	13.5	28	26	28	26	26	32	29	18	30	29	27
34	Cirrhosis of liver	211	8.6	17	17	16	23	21	17	19	24	13	17	15
35	Other liver diseases	287	11.7	25	25	23	27	13	22	23	23	31	28	20
36	Peritonitis	277	11.3	26	22	28	23	28	24	20	23	25	22	16
37	Appendicitis	263	10.7	21	15	23	29	26	17	19	34	19	25	16
38	Other digestive diseases	182	7.4	13	15	15	23	14	10	8	14	25	19	11
39	Bright's disease	1,050	42.8	106	82	100	79	100	84	75	89	82	77	78
40	Other genito-urin'y diseases	598	24.4	55	38	47	51	60	54	53	55	42	46	46
41	Puerperal septicemia	267	10.9	19	24	45	34	27	16	18	15	15	18	17
42	Other puerperal diseases	264	10.8	28	28	31	22	34	15	14	19	14	16	19
43	Skin diseases	172	7.0	12	17	16	15	21	14	13	7	20	8	8
44	Diseases locomotor system	46	1.9	4	3	6	6	4	3	3	4	4	3	2
45	Malformations	306	12.5	27	26	33	25	29	28	25	29	19	18	24
46	Premature birth	524	21.4	62	38	46	53	44	39	41	35	36	40	47
47	Congenital debility	677	27.6	62	58	68	59	52	62	60	53	62	51	44
48	Old age	1,193	48.7	114	121	128	119	94	85	92	84	78	92	77
49	Suicides	238	9.7	13	16	16	21	11	23	23	25	16	34	20
50	Accidents	1,978	80.7	137	98	114	123	167	185	253	188	209	160	197
51	Homicides	35	1.4	.....	.....	4	3	1	6	2	2	4	7	4
52	Causes ill-defined	1,051	42.9	94	109	106	82	82	69	72	99	92	80	69

for the State and g ographical sections, 1901.—STATE.

Ages of decedents, 1901.																						
Ages in years under five.					Ages for five-year periods.																	Line number.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.	
6,319	1121	1530	348	253	8,571	786	675	1056	1301	1262	1151	1163	1196	1189	1374	1561	1740	2249	2241	2222	2980	117	1
2	4	3	9	5	23	30	46	89	109	86	62	61	29	31	20	12	12	16	6	8	4	1	2
1	2	3	4	2	12	4	8	6	9	12	5	3	4	4	6	4	5	4	7	8	7	1	3
5	....	....	....	1	6	2	1	....	3	3	2	2	1	2	....	....	....	3	1	....	1	....	4
22	17	16	3	2	60	7	....	2	2	....	....	1	2	2	....	1	....	....	1	....	1	....	5
30	43	54	36	30	193	80	12	10	6	2	4	3	1	....	....	....	1	....	....	....	....	....	6
98	39	10	3	5	155	7	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	7
36	44	59	57	50	246	140	63	20	9	10	5	2	2	2	1	....	1	1	....	....	....	....	8
113	17	10	3	3	146	12	9	19	17	17	22	26	27	27	48	55	82	112	98	159	222	1	9
41	23	8	5	1	78	3	....	1	3	1	3	2	2	....	6	5	10	16	20	21	41	....	10
23	1	....	1	....	25	....	3	3	2	2	5	5	9	7	9	7	7	7	8	7	10	....	11
6	3	2	1	1	13	7	....	....	2	....	....	....	1	1	3	1	3	5	3	5	6	....	12
25	11	11	3	4	54	19	48	250	324	308	248	181	169	124	111	102	82	53	31	39	8	1	13
36	28	8	7	3	82	19	16	31	38	29	33	16	17	20	21	18	10	15	1	11	3	....	14
4	....	4	3	....	11	4	4	6	13	16	35	69	111	120	155	181	186	207	168	109	86	3	15
1	1	2	2	....	6	14	19	11	6	5	7	9	13	6	6	12	25	23	26	15	18	....	16
5	....	3	....	1	9	12	17	11	14	15	12	15	12	14	18	18	21	37	20	11	8	....	17
91	9	6	3	2	111	9	9	20	27	27	43	49	41	42	34	33	27	41	38	21	11	3	18
138	62	23	18	16	257	40	15	23	17	11	12	13	8	9	3	4	1	5	3	4	2	....	19
37	8	5	5	1	56	5	12	4	14	11	18	17	23	45	71	108	122	191	187	169	185	5	20
6	....	1	1	1	9	....	6	3	5	4	6	14	24	25	33	66	69	96	135	130	172	2	21
458	46	18	1	2	525	7	2	2	4	1	....	1	1	....	1	....	2	....	2	....	2	....	22
78	16	14	10	6	124	31	26	40	28	37	32	51	58	71	53	67	74	88	84	64	57	8	23
58	7	1	7	2	75	12	41	27	35	37	53	73	105	123	171	227	279	379	372	355	321	6	24
28	4	3	5	3	43	7	7	16	23	13	22	19	21	20	35	53	55	74	68	64	60	....	25
326	86	20	10	10	442	8	2	3	5	13	7	10	5	8	14	26	23	54	63	78	95	3	26
228	51	23	7	9	318	15	5	4	3	2	6	6	5	4	9	12	13	21	22	16	28	....	27
486	116	49	24	30	705	61	54	84	73	93	84	99	104	103	115	110	122	150	155	138	158	4	28
115	20	10	15	7	167	15	10	15	21	13	17	18	19	21	31	27	36	44	48	47	56	2	29
121	23	3	2	....	149	9	7	5	7	11	7	11	25	21	22	24	30	44	42	46	47	1	30
1,474	293	...	....	....	1,767	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	31
.....	....	77	30	12	119	22	14	15	14	23	8	12	12	10	28	29	40	40	43	42	54	1	32
44	3	6	4	1	58	5	5	12	12	11	11	8	14	24	14	23	22	36	35	25	17	....	33
3	....	....	....	....	3	....	1	2	1	3	5	6	12	18	24	17	27	39	28	18	7	....	34
7	3	1	....	1	12	2	4	4	7	8	13	12	10	21	28	24	34	34	33	23	18	....	35
17	9	3	3	3	35	12	17	31	28	25	19	9	18	14	7	13	8	10	14	9	7	1	36
.....	2	....	1	4	7	20	45	52	31	29	16	21	11	5	4	8	4	5	2	1	2	...	37
50	15	9	4	1	79	12	6	4	3	6	3	4	2	5	9	4	7	12	7	5	14	....	38
20	7	4	4	....	35	9	9	20	30	35	36	35	51	58	74	96	109	123	111	122	95	2	39
24	1	3	6	3	37	7	6	7	18	31	29	33	41	29	37	24	35	51	74	53	86	....	40
.....	....	....	....	....	.....	....	....	21	72	71	49	33	16	4	....	....	....	....	....	....	....	1	41
.....	....	....	....	....	.....	....	1	15	70	49	59	38	24	7	....	....	....	....	....	....	....	1	42
25	4	1	....	2	32	2	1	3	....	2	4	5	1	5	6	8	8	16	14	25	40	....	43
11	4	2	1	....	18	5	3	6	....	1	1	....	1	....	....	4	4	1	....	....	1	1	44
280	10	6	3	....	299	3	....	2	1	....	....	1	....	....	....	....	....	....	....	....	....	....	45
524	....	....	....	....	524	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	46
677	....	....	....	....	677	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	47
.....	....	....	....	....	.....	....	....	....	....	....	....	....	1	....	....	2	6	46	108	223	799	8	48
.....	....	....	....	....	.....	1	....	11	17	19	21	22	21	26	21	22	17	16	10	10	3	1	49
140	55	41	40	28	304	94	109	136	168	150	110	122	102	85	96	77	67	60	73	63	111	51	50
.....	....	....	....	....	.....	3	2	3	1	1	5	4	3	3	2	3	....	....	1	1	....	3	51
405	34	8	7	1	455	10	9	7	9	19	12	22	17	23	28	34	54	74	79	77	117	5	52

Table 17.—Continued.—Causes of death in Michigan, by months and ages.

Line number.	Causes of death, 1901.	Total deaths, 1901.	Rate per 100,000 estimated population.	Months of death, 1901.											
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	ALL CAUSES	3,388	1,252.5	277	286	268	266	278	260	230	369	371	282	253	24
2	Typhoid fever	88	32.5	7	5	5	4	3	3	1	7	16	14	11	12
3	Malarial fever	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4	Smallpox	4	1.5	1	.....	.....	1	.....	.....	.....	.....	.....	.....	1	1
5	Measles	31	11.5	1	.....	1	3	2	7	8	.....	1	1	3	4
6	Scarlet fever	64	23.7	13	11	7	2	7	5	3	6	.....	.....	5	5
7	Whooping cough	24	8.9	1	3	5	1	2	3	4	1	1	.....	.....	2
8	Diphtheria and croup	81	29.9	16	6	5	4	4	1	2	6	14	6	12	5
9	Influenza	26	9.6	1	12	5	2	2	1	1	.....	.....	1	.....	1
10	Dysentery	18	6.7	.....	.....	.....	.....	1	.....	2	9	4	1	1	.....
11	Erysipelas	6	2.2	.....	1	.....	.....	.....	1	2	.....	.....	.....	1	1
12	Other epidemic diseases	3	1.1	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....
13	Tuberculosis of lungs	246	90.9	28	21	17	23	21	27	20	23	21	12	22	11
14	Other forms of tuberculosis	48	17.7	4	5	5	6	5	3	2	1	4	4	4	3
15	Cancer	95	35.1	5	12	5	4	9	12	4	11	8	13	7	5
16	Rheumatism	13	4.8	1	1	2	1	1	3	1	.....	1	.....	2	.....
17	Diabetes	23	8.5	2	.....	1	3	1	2	4	3	1	3	1	2
18	Other general diseases	53	19.6	8	2	3	3	5	2	2	6	5	9	4	4
19	Meningitis	46	17.0	4	1	5	5	4	2	4	3	4	5	6	3
20	Apoplexy	55	20.3	5	8	4	6	4	4	2	4	3	6	5	4
21	Paralysis	20	7.4	3	1	2	.....	2	1	1	1	2	1	5	1
22	Convulsions	98	36.2	3	6	12	7	11	11	8	6	11	8	7	8
23	Other nervous diseases	60	22.2	8	4	7	7	6	2	1	8	2	6	4	5
24	Heart disease	135	49.9	10	10	9	13	22	10	8	7	11	16	12	7
25	Other circulatory diseases	48	17.7	3	8	4	4	6	3	1	3	5	3	4	4
26	Bronchitis	123	45.5	10	18	26	14	8	10	2	4	5	8	8	10
27	Bronchopneumonia	68	25.1	7	8	14	9	5	8	.....	1	1	7	5	3
28	Pneumonia	220	81.3	26	31	25	24	21	14	5	8	12	8	17	2
29	Other respiratory diseases	48	17.7	5	5	2	7	3	3	4	3	3	6	3	4
30	Diseases of stomach	48	17.7	5	6	3	3	3	3	4	4	2	6	3	4
31	Diarrhea and enteritis, under 2 years	342	126.4	10	8	10	15	13	14	36	121	85	15	11	4
32	Diarrhea and enteritis, over 2 years	41	15.2	1	1	3	1	2	2	2	8	13	5	3	.....
33	Hernia and obstr. of bowels	18	6.7	1	2	2	2	.....	2	2	2	1	2	1	1
34	Cirrhosis of liver	18	6.7	.....	1	3	1	2	2	1	2	.....	3	1	2
35	Other liver diseases	9	3.3	1	2	1	.....	1	.....	1	.....	1	.....	1	1
36	Peritonitis	28	10.4	.....	6	1	2	1	1	2	.....	2	5	5	1
37	Appendicitis	26	9.6	.....	1	1	.....	6	3	1	2	4	2	1	1
38	Other digestive diseases	26	9.6	2	3	2	2	.....	3	.....	5	4	3	1	
39	Bright's disease	62	22.9	4	3	2	1	7	4	9	5	4	7	5	1
40	Other genito-urin'y diseases	26	9.6	2	1	1	3	4	2	.....	1	1	5	5	
41	Puerperal septicemia	29	10.7	3	5	3	5	.....	2	.....	2	3	4	.....	
42	Other puerperal diseases	30	11.1	6	3	1	5	4	4	1	1	.....	2	.....	
43	Skin diseases	19	7.0	1	1	.....	1	5	1	1	.....	3	2	1	
44	Diseases locomotor system	10	3.7	1	2	4	.....	.....	.....	1	.....	1	.....	1	.....
45	Malformations	33	12.2	.....	2	2	1	6	2	4	4	3	2	5	
46	Premature birth	68	25.1	9	5	7	7	7	.....	7	5	7	6	4	
47	Congenital debility	120	44.4	11	14	13	12	10	8	7	10	13	9	4	
48	Old age	52	19.2	5	6	2	3	1	7	5	5	6	4	3	
49	Suicides	26	9.6	1	1	1	3	1	1	3	2	2	5	3	
50	Accidents	418	154.5	35	20	15	27	41	47	43	45	54	34	29	
51	Homicides	14	5.2	.....	.....	.....	1	.....	1	1	1	1	4	3	
52	Causes ill-defined	181	66.9	7	14	20	18	9	13	7	20	26	19	13	

for the State and geographical sections, 1901.—Upper Peninsula.

Ages of decedents, 1901.																						
Ages in years under five.					Ages by five years periods.																	Line number.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.	
1,042	187	106	59	47	1,441	140	95	117	169	179	147	167	131	99	111	102	103	106	98	64	86	33	..
.....	1	1	1	....	3	2	7	8	17	17	15	8	3	5	1	....	....	2	....	....	....	..	2
.....	....	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	3
.....	....	....	....	....	.....	....	....	....	....	....	....	1	1	....	....	....	....	2	....	....	....	..	4
8	8	7	3	1	27	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	5
6	14	15	6	5	46	14	3	....	1	....	....	....	....	....	....	....	....	....	....	....	....	..	6
16	4	1	1	1	23	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	7
6	6	11	11	10	44	27	7	2	....	....	....	....	....	....	....	....	....	1	....	....	....	..	8
9	....	2	....	....	11	2	....	....	1	1	....	1	....	1	1	....	1	2	3	....	2	..	9
5	1	1	....	....	7	1	....	....	2	1	....	....	....	....	1	....	....	1	1	2	2	..	10
1	....	....	....	....	1	....	1	....	....	....	....	....	2	....	1	1	....	....	....	....	....	..	11
2	....	....	....	....	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	12
5	3	5	1	....	14	7	5	30	37	33	25	25	29	9	10	8	6	2	2	4	....	..	13
5	3	....	3	1	12	4	5	5	5	4	4	2	1	3	....	1	1	....	....	1	....	..	14
1	....	1	1	....	3	1	....	1	1	1	6	3	9	9	12	10	14	10	7	4	4	..	15
.....	....	1	....	....	1	1	1	....	2	1	....	....	1	....	....	....	3	1	....	....	2	..	16
1	....	....	....	....	1	2	4	....	1	1	3	1	....	1	1	3	3	1	1	....	....	..	17
7	1	....	1	1	10	....	....	3	....	3	6	9	8	3	2	3	2	2	1	....	....	1	18
20	6	....	2	3	31	4	2	1	1	....	1	3	1	....	....	....	1	1	....	....	....	..	19
7	1	....	2	1	11	....	....	....	1	1	2	....	1	4	5	7	2	5	9	3	2	2	20
.....	....	....	....	....	.....	....	....	....	....	....	....	2	....	1	3	3	1	1	4	....	5	..	21
81	7	8	....	....	96	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	..	22
8	4	2	2	3	19	3	2	1	4	3	3	5	4	2	4	....	2	....	2	....	2	4	23
4	1	....	....	....	5	2	8	4	5	7	5	10	4	8	9	13	13	12	14	7	5	4	24
6	1	1	....	....	8	2	2	1	3	1	2	3	3	2	....	4	6	4	4	2	1	..	25
69	24	7	....	2	102	1	....	....	....	1	....	1	....	....	....	2	1	4	5	4	1	1	26
40	7	3	4	2	56	5	....	....	....	1	....	....	....	....	1	....	1	1	1	....	2	..	27
49	9	10	6	5	79	12	6	9	8	10	9	15	11	6	10	10	13	11	5	3	3	..	28
9	1	1	2	3	16	3	3	2	1	1	....	2	....	1	2	6	2	1	2	3	2	1	29
14	5	1	....	....	20	2	2	1	....	3	1	2	3	2	1	4	....	5	1	....	1	..	30
299	43	....	....	....	342	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	31
.....	....	9	4	2	15	3	....	....	2	4	....	....	2	....	3	....	2	3	5	2	....	..	32
3	2	....	....	....	5	....	1	....	....	2	1	....	....	1	1	2	1	2	2	....	....	..	33
.....	....	....	....	....	.....	....	....	....	....	....	....	1	2	1	4	1	1	3	4	1	....	..	34
1	1	....	....	....	2	....	....	1	....	....	1	1	....	1	....	....	1	2	....	....	....	..	35
3	3	1	....	....	7	2	3	4	1	4	....	1	1	....	....	2	1	1	1	....	....	..	36
.....	....	....	....	....	.....	3	....	5	2	3	4	6	1	....	....	1	....	1	....	....	....	..	37
10	5	2	1	....	18	4	....	....	....	....	....	....	....	....	....	....	1	2	....	....	1	..	38
1	2	2	2	....	7	2	2	1	....	1	4	6	2	4	5	4	5	3	4	6	6	..	39
3	....	....	....	1	4	....	1	....	2	3	2	2	1	2	3	....	1	1	1	2	1	..	40
.....	....	....	....	....	.....	....	....	4	9	7	2	5	1	1	....	....	....	....	....	....	....	..	41
.....	....	....	....	....	.....	....	....	1	6	5	8	4	3	3	....	....	....	....	....	....	....	..	42
6	1	....	....	....	7	1	....	....	....	....	....	1	....	1	2	....	2	1	2	....	2	..	43
2	....	1	....	....	3	2	2	2	....	....	....	....	....	....	....	....	1	....	....	....	....	..	44
28	4	1	....	....	33	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	45
68	....	....	....	....	68	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	46
120	....	....	....	....	120	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	47
.....	....	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	4	6	9	33	..	48
.....	....	....	....	....	.....	....	....	1	3	7	3	3	1	1	2	3	1	1	....	....	....	..	49
16	9	9	5	6	45	17	24	27	49	52	39	42	32	22	20	9	9	5	3	5	1	17	50
.....	....	....	....	....	.....	1	1	2	....	....	1	....	1	2	2	2	....	....	....	....	....	..	..
103	10	3	1	....	117	3	3	1	5	1	....	2	3	3	5	3	5	8	3				

Table 17.—Continued.—Causes of death in Michigan, by months and age.

Line number.	Causes of death, 1901.	Total deaths, 1901.	Rate per 100,000 estimated population.	Months of death, 1901. Jan.	Feb.	Mar	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	ALL CAUSES	3,654	1,205.1	361	332	399	332	334	260	238	289	328	249	253	270
2	Typhoid fever	87	28.7	11	3	4	1	1	5	4	9	17	14	12	6
3	Malarial fever	12	4.0	.....	.....	.....	.....	4	2	.....	1	1	2	1	1
4	Smallpox	6	2.0	.....	.....	1	.....	1	1	.....	.....	2	.....	1	.....
5	Measles	1	0.3	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
6	Scarlet fever	50	16.5	4	6	6	6	6	2	1	3	1	2	7	1
7	Whooping cough	22	7.3	2	1	1	1	5	1	.....	4	.....	.....	5	.....
8	Diphtheria and croup	81	26.7	10	4	4	7	11	2	6	4	9	7	7	1
9	Influenza	103	34.0	14	29	34	10	9	1	1	.....	1	2	1	.....
10	Dysentery	19	6.3	2	1	.....	.....	.....	.....	2	5	8	1	.....	.....
11	Erysipelas	12	4.0	1	.....	1	4	1	2	.....	.....	.....	1	1	.....
12	Other epidemic diseases	6	2.0	.....	.....	.....	.....	.....	.....	.....	.....	5	1	.....	.....
13	Tuberculosis of lungs	233	76.8	31	15	28	31	28	17	13	18	9	20	11	1
14	Other forms of tuberculosis	34	11.2	2	.....	6	5	2	2	3	1	3	2	4	
15	Cancer	127	41.9	12	7	12	13	12	8	15	17	14	2	8	
16	Rheumatism	20	6.6	1	2	3	4	.....	1	1	2	2	.....	2	
17	Diabetes	27	8.9	5	.....	3	2	1	5	1	1	2	2	2	
18	Other general diseases	62	20.4	3	6	5	5	10	4	5	4	2	8	5	
19	Meningitis	57	18.8	3	2	6	5	5	2	7	6	9	5	1	
20	Apoplexy	94	31.0	7	11	8	8	4	9	4	5	11	8	10	
21	Paralysis	72	23.7	3	11	5	6	7	4	8	3	5	6	5	
22	Convulsions	65	21.4	4	4	8	5	4	4	8	5	6	3	8	
23	Other nervous diseases	125	41.2	11	14	9	12	11	8	11	12	7	5	12	
24	Heart disease	216	71.2	19	30	17	19	25	18	10	21	14	11	18	
25	Other circulatory diseases	65	21.4	7	6	9	3	6	8	6	4	2	5	3	
26	Bronchitis	95	31.3	18	15	14	15	6	5	2	2	4	.....	8	
27	Bronchopneumonia	45	14.8	6	7	12	5	5	1	2	1	1	2	1	
28	Pneumonia	317	104.5	43	48	46	46	33	22	4	5	9	9	18	
29	Other respiratory diseases	66	21.8	9	6	11	5	5	3	4	4	3	4	4	
30	Diseases of stomach	55	18.1	9	8	2	3	9	4	2	6	4	3	3	
31	Diarrhea and enteritis, under 2 years	213	70.2	6	4	10	6	7	13	15	42	73	23	9	
32	Diarrhea and enteritis, over 2 years	54	17.8	3	3	6	2	4	4	3	9	8	8	3	
33	Hernia and obstr. of bowels	34	11.2	3	1	3	1	5	5	3	1	4	4	1	
34	Cirrhosis of liver	14	4.6	1	.....	.....	2	2	1	.....	2	2	2	.....	
35	Other liver diseases	35	11.5	.....	6	3	2	3	3	2	2	3	3	5	
36	Peritonitis	28	9.2	.....	3	3	1	3	2	1	4	4	3	1	
37	Appendicitis	23	7.6	1	1	3	1	4	2	1	1	1	3	2	
38	Other digestive diseases	33	10.9	2	2	3	4	5	1	2	2	6	1	2	
39	Bright's disease	91	30.0	9	5	12	6	8	7	7	11	6	3	4	1
40	Other genito-urin'y diseases	59	19.5	9	5	5	10	4	4	4	7	2	3	4	
41	Puerperal septicemia	40	13.2	1	3	11	.....	8	2	2	1	1	3	4	
42	Other puerperal diseases	43	14.2	6	4	5	2	8	2	2	2	2	2	4	
43	Skin diseases	15	4.9	1	.....	2	2	1	.....	1	2	3	.....	1	
44	Diseases locomotor system	7	2.3	2	.....	1	1	1	.....	.....	.....	2	.....	.....	.....
45	Malformations	55	18.1	6	4	7	6	1	3	7	3	3	4	7	
46	Premature birth	74	24.4	12	8	5	9	5	6	3	8	2	3	7	
47	Congenital debility	85	28.0	11	4	8	10	2	9	13	4	7	5	6	
48	Old age	136	44.9	14	14	14	17	15	13	8	8	2	12	9	
49	Suicides	17	5.6	.....	.....	.....	2	1	3	2	1	3	1	1	
50	Accidents	250	82.4	14	9	17	12	21	24	34	27	31	28	13	
51	Homicides	4	1.3	.....	.....	.....	.....	.....	3	.....	.....	.....	1	.....	.....
52	Causes ill-defined	170	56.1	23	17	25	15	15	12	9	9	8	12	12	

for the State and geographical sections, 1901.—Northern Counties.

Ages of decedents, 1901.																						
Ages in years under five.					Ages for five-year periods.																	
0.	1.	2.	3.	4.	0. to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64	65 to 69	70 to 74.	75 to 79.	80+	Unk.	Line number.
881	169	69	54	33	1,206	120	97	143	163	155	138	117	120	146	163	152	161	191	192	155	214	21	1
2	....	....	2	....	4	8	5	12	21	11	9	5	....	3	3	1	1	....	2	1	....	1	2
....	....	....	....	....	....	2	2	1	....	1	1	....	1	....	2	1	1	....	....	....	....	..	3
2	....	....	....	1	3	....	....	....	1	1	1	....	....	....	....	....	....	....	....	....	....	..	4
1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	5
4	4	13	7	2	30	13	....	2	1	....	1	1	1	....	....	....	1	....	....	....	....	..	6
16	4	1	....	....	21	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	7
6	2	7	10	9	34	22	11	5	4	4	1	....	....	....	....	....	....	....	....	....	....	..	8
16	7	2	1	1	27	1	2	1	2	3	2	1	2	4	4	4	6	5	11	13	15	..	9
8	5	....	....	1	14	....	....	....	1	....	....	....	....	....	....	....	1	1	1	....	1	..	10
3	....	....	....	....	3	....	....	....	....	....	2	1	1	....	1	1	2	....	1	....	....	..	11
1	....	1	....	....	2	1	....	....	....	....	....	....	....	....	2	....	....	1	....	....	....	..	12
6	1	....	....	2	9	3	8	32	34	33	27	11	15	19	11	10	9	4	4	2	2	..	13
4	4	2	....	....	10	1	1	3	3	2	3	....	1	2	3	....	1	3	....	1	....	..	14
....	....	....	....	....	....	....	2	....	....	2	1	6	13	11	21	19	12	17	13	7	2	1	15
....	....	....	2	....	2	1	2	....	1	....	....	2	....	1	1	....	....	5	3	....	2	..	16
1	....	1	....	....	2	....	1	....	2	1	3	1	....	2	3	1	2	6	2	....	1	..	17
8	2	....	....	....	10	4	1	4	2	3	2	5	3	3	7	4	3	1	6	1	1	2	18
17	14	4	3	2	40	6	3	4	2	....	....	....	....	2	....	....	....	....	....	....	....	..	19
7	1	2	1	....	11	....	2	1	3	1	3	4	4	5	1	6	15	11	9	10	7	1	20
....	....	....	1	....	1	....	....	....	1	....	1	2	2	5	2	9	11	7	7	10	14	..	21
50	9	1	....	....	60	2	1	....	....	1	....	....	1	....	....	....	....	....	....	....	....	..	22
16	3	2	3	....	24	5	6	4	7	6	3	7	3	13	8	13	7	9	5	1	4	..	23
7	1	....	....	....	8	....	2	1	2	3	5	7	11	17	16	19	24	35	28	21	16	1	24
5	....	....	1	1	7	3	2	3	6	1	3	1	4	1	7	1	3	5	4	7	4	..	25
42	8	4	1	1	56	....	....	1	1	3	....	2	1	....	1	4	2	6	3	7	6	2	26
23	8	....	1	1	33	3	1	....	....	....	....	....	....	1	....	....	2	1	1	1	2	..	27
87	18	12	1	5	123	12	7	15	13	11	12	10	11	14	15	13	10	18	16	9	8	..	28
19	4	....	2	....	25	1	2	1	1	3	1	1	2	1	2	1	4	4	7	4	6	..	29
16	5	1	....	....	22	1	2	....	2	....	1	....	2	3	3	4	2	4	7	1	1	..	30
168	45	....	....	....	213	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	31
....	....	9	7	1	17	2	5	1	....	1	1	1	1	2	5	3	4	2	5	3	1	..	32
10	....	1	1	....	12	1	1	1	3	....	....	2	....	1	3	3	....	7	....	....	....	..	33
....	....	....	....	....	....	....	....	....	....	1	....	....	2	2	2	....	2	3	2	....	....	..	34
....	1	....	....	....	1	1	1	....	1	1	1	2	....	4	5	2	5	5	....	4	2	..	35
2	....	1	....	....	3	3	....	5	3	4	4	....	....	1	1	1	....	....	1	....	1	1	36
....	1	....	....	....	1	1	5	3	2	3	....	4	3	1	....	....	....	....	....	....	....	..	37
8	1	....	2	....	11	5	....	3	3	1	....	1	2	1	2	....	1	....	2	....	1	..	38
4	....	....	2	....	6	1	....	1	3	3	4	2	9	8	14	8	4	9	8	6	5	..	39
4	....	2	....	....	6	....	....	2	3	4	2	4	2	1	2	3	2	6	10	4	8	..	40
....	....	....	....	....	....	....	....	5	8	12	8	5	1	1	....	....	....	....	....	....	....	..	41
....	....	....	....	....	....	....	....	4	10	7	10	7	3	1	....	....	....	....	....	....	....	1	42
4	....	....	....	....	4	....	....	1	....	....	1	....	....	....	2	....	1	....	1	3	2	..	43
4	....	....	....	....	4	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	44
52	3	....	....	....	55	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	45
74	....	....	....	....	74	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	46
85	....	....	....	....	85	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	47
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	4	15	28	86	2	48
....	....	....	....	....	....	....	....	....	....	....	2	1	3	1	....	3	3	2	....	1	1	..	49
20	10	2	4	6	42	12	20	24	17	24	18	16	12	11	11	10	7	2	10	1	6	7	50
....	....	....	....	....	....	1	....	....	....	1	....	2	....	....	....	....	....	....	....	....	....	..	51
79	8	1	2	....	90	1	1	3	....	3	5	3	4	4	3	5	12	8	8	9	9	2	52

Table 17.—Continued.—Causes of death in Michigan, by months and age,

Line number.	Causes of death, 1901.	Total deaths, 1901.	Rate per 100,000 estimated population.	Months of deaths, 1901.											
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	**ALL CAUSES**	5,461	1,236.8	506	533	590	485	475	357	375	437	507	405	364	497
2	**Typhoid fever**	97	22.0	9	2	5	5	5	3	3	8	20	14	15	8
3	**Malarial fever**	27	6.1	2	3	2	2	2	2	.....	6	4	3	1	.....
4	**Smallpox**	7	1.6	.....	1	1	.....	.....	.....	1	1	.....	1	.....	3
5	**Measles**	8	1.8	1	2	2	.....	.....	.....	.....	1	1	.....	.....	1
6	**Scarlet fever**	69	15.6	6	11	17	4	7	5	1	1	1	3	5	8
7	**Whooping cough**	32	7.2	6	3	4	6	2	1	1	1	3	1	1	3
8	**Diphtheria and croup**	97	22.0	8	9	13	8	7	6	3	4	4	14	12	9
9	**Influenza**	222	50.3	33	84	52	25	11	4	2	.....	1	.....	3	7
10	**Dysentry**	31	7.0	2	.....	1	.....	1	1	2	4	10	7	3	.....
11	**Erysipelas**	19	4.3	.....	3	4	1	5	2	1	1	.....	1	.....	1
12	**Other epidemic diseases**	7	1.6	.....	.....	.....	.....	1	1	.....	3	1	1	.....	.....
13	**Tuberculosis of lungs**	372	84.3	40	32	39	35	43	32	33	28	22	28	16	2
14	**Other forms of tuberculosis**	71	16.1	3	3	10	11	7	7	4	7	6	4	3	
15	**Cancer**	226	51.2	16	21	15	16	23	14	18	15	22	25	18	2
16	**Rheumatism**	41	9.3	6	6	8	3	5	3	2	2	4	.....	1	
17	**Diabetes**	42	9.5	2	4	5	4	1	1	3	3	6	8	2	
18	**Other general diseases**	97	22.0	5	3	12	7	10	10	7	10	15	4	7	
19	**Meningitis**	77	17.4	6	6	8	7	9	9	6	10	10	3	3	.....
20	**Apoplexy**	199	45.1	15	10	14	13	26	13	19	22	13	21	12	2
21	**Paralysis**	131	29.7	10	6	14	19	11	11	9	10	11	11	11	
22	**Convulsions**	80	18.1	9	9	6	7	10	9	7	8	3	5	4	
23	**Other nervous diseases**	126	28.5	11	17	11	9	5	9	10	7	12	11	15	
24	**Heart disease**	417	94.4	35	36	42	38	36	25	37	28	37	29	36	3
25	**Other circulatory diseases**	87	19.7	10	4	8	5	11	8	7	7	7	7	10	
26	**Bronchitis**	119	27.0	21	19	15	18	6	6	1	3	5	9	7	
27	**Bronchopneumonia**	69	15.6	15	9	12	6	3	3	.....	2	5	4	1	
28	**Pneumonia**	472	106.9	61	83	83	66	40	18	11	6	12	20	27	4
29	**Other respiratory diseases**	104	23.6	14	10	10	5	14	5	8	3	7	9	6	1
30	**Diseases of stomach**	100	22.6	2	2	15	14	20	8	10	5	14	3	3	
31	**Diarrhea and enteritis, under 2 years**	308	69.8	13	9	8	13	7	9	20	81	92	40	8	
32	**Diarrhea and enteritis, over 2 years**	100	22.6	4	3	7	5	6	6	7	13	26	12	4	
33	**Hernia and obstr. of bowels**	68	15.4	5	6	2	7	8	10	9	3	5	3	5	
34	**Cirrhosis of liver**	39	8.8	3	5	1	3	3	2	1	7	5	2	4	
35	**Other liver diseases**	46	10.4	2	3	3	8	4	3	3	5	4	3	4	
36	**Peritonitis**	53	12.0	8	3	5	.....	7	3	4	3	3	6	4	
37	**Appendicitis**	39	8.8	3	4	3	7	2	2	4	8	1	1	2	
38	**Other digestive diseases**	25	5.7	2	2	.....	3	2	.....	.....	1	5	4	4	
39	**Bright's disease**	171	38.7	22	14	16	18	22	10	14	8	13	7	11	1
40	**Other genito-urin'y diseases**	94	21.3	5	4	11	4	6	11	14	13	6	3	9	
41	**Puerperal septicemia**	52	11.8	3	5	9	10	2	5	4	3	3	2	3	
42	**Other puerperal diseases**	64	14.5	3	9	7	6	9	2	2	5	8	5	6	
43	**Skin diseases**	16	3.6	1	1	.....	1	2	3	2	2	1	1	.....	
44	**Diseases locomotor system**	5	1.1	.....	.....	.....	.....	.....	1	1	2	.....	.....	.....	
45	**Malformations**	49	11.1	5	.....	7	4	5	7	3	7	1	4	1	
46	**Premature birth**	100	22.6	10	11	7	9	6	11	10	5	6	7	9	
47	**Congenital debility**	74	16.8	5	3	13	6	5	5	8	7	7	4	6	
48	**Old age**	199	45.1	23	23	22	18	13	12	15	13	17	15	17	1
49	**Suicides**	31	7.0	2	1	3	2	.....	8	4	4	.....	3	3	
50	**Accidents**	281	63.6	21	12	18	15	27	18	35	23	30	28	32	
51	**Homicides**	5	1.1	.....	.....	3	.....	.....	.....	.....	.....	1	1	.....	.....
52	**Causes ill-defined**	196	44.4	18	37	17	12	18	13	9	18	17	8	10	

or the State and geographical sections, 1901.—Central Counties.

Ages of decedents, 1901.																						
Ages in years under five.					Ages by five-year periods.																	
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.	Line number.
1,069	204	99	66	45	1,483	146	117	195	227	192	178	170	203	190	222	266	256	410	373	366	454	13	1
.....	2	....	1	2	5	2	7	19	15	13	8	7	4	10	2	3	1	....	....	1	....	..	2
.....	....	1	3	....	4	1	1	1	3	2	2	1	....	2	....	2	....	2	3	1	2	..	3
2	....	....	....	....	2	....	1	....	1	1	1	1	....	....	....	....	....	....	....	....	....	..	4
2	2	2	....	....	6	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	..	5
9	7	10	6	9	41	22	2	3	1	....	....	....	....	....	....	....	....	....	....	....	....	..	6
20	7	2	1	2	32	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	7
7	7	13	10	9	46	27	16	4	1	2	....	....	....	1	....	....	....	....	....	....	....	..	8
34	3	3	2	1	43	....	2	2	....	4	6	8	6	6	8	12	14	23	16	38	34	..	9
13	7	....	1	....	21	....	....	....	....	....	....	....	1	....	....	....	1	1	2	1	4	..	10
6	....	....	1	....	7	....	....	2	1	....	....	1	....	1	....	2	1	2	1	....	1	..	11
1	1	....	....	....	2	1	....	....	1	....	....	....	....	....	....	....	....	....	....	2	1	..	12
2	1	....	....	....	3	....	5	51	71	48	46	24	25	31	16	13	14	9	5	7	3	1	13
10	5	1	....	....	16	5	4	8	5	8	5	2	4	3	2	1	2	3	....	1	2	..	14
1	....	....	....	....	1	....	....	1	1	3	3	13	20	14	17	34	21	40	24	18	16	..	15
.....	....	....	....	....	.....	4	5	3	....	....	3	2	1	....	....	5	4	2	4	4	4	..	16
.....	....	....	....	....	.....	1	4	....	4	4	....	6	2	2	2	....	4	5	5	3	....	..	17
15	1	....	1	....	17	2	1	1	5	5	8	4	9	4	5	7	3	13	8	3	2	..	18
21	12	7	4	2	46	8	1	7	4	1	2	3	2	....	1	1	....	1	....	....	....	..	19
4	2	2	....	....	8	2	2	2	1	1	2	2	3	4	14	23	18	29	32	29	26	1	20
2	....	1	....	1	4	....	1	3	1	....	1	1	2	2	3	12	7	18	30	27	19	..	21
60	9	5	....	1	75	2	....	1	....	....	....	....	....	....	1	....	....	....	....	....	1	..	22
8	5	1	1	1	16	6	5	5	4	4	1	3	4	13	9	10	10	9	14	5	8	..	23
12	1	....	4	....	17	2	6	2	3	3	8	9	15	17	29	31	39	71	66	53	45	1	24
5	....	....	1	1	7	1	1	4	1	1	4	3	3	3	7	8	10	7	11	5	11	..	25
46	8	3	....	....	57	2	1	....	....	....	1	2	1	1	2	2	2	10	11	16	11	..	26
33	10	5	1	....	49	....	2	....	2	....	....	....	....	....	1	2	2	2	3	3	3	..	27
103	32	7	2	3	147	14	8	16	15	19	14	22	26	16	28	24	25	30	17	31	19	1	28
27	2	3	4	1	37	2	1	1	4	1	5	3	2	2	5	3	7	8	7	9	7	..	29
22	6	....	....	....	28	1	1	....	....	1	2	3	8	4	3	6	7	14	8	9	5	..	30
251	56	....	....	....	307	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	31
.....	....	18	7	2	27	5	3	3	2	6	....	....	2	2	7	6	9	8	8	2	10	..	32
7	....	5	....	1	13	1	1	4	3	3	1	2	4	3	4	5	3	7	7	4	3	..	33
1	....	....	....	....	1	....	1	....	....	1	....	1	4	3	5	4	2	9	3	4	1	..	34
2	....	....	....	....	2	....	....	....	2	1	4	2	1	3	7	3	7	6	5	1	2	..	35
5	1	....	1	....	7	2	3	4	7	6	4	4	5	3	....	....	1	2	3	1	1	..	36
.....	....	....	....	2	2	3	5	13	7	....	2	1	1	3	....	2	....	....	....	....	....	..	37
8	1	1	....	1	11	2	2	....	....	2	....	1	....	1	1	....	....	1	....	2	2	..	38
1	1	1	....	....	3	3	3	3	3	6	3	4	8	11	14	20	15	27	19	12	17	.	39
6	1	....	1	....	8	1	2	1	1	4	4	1	8	5	7	5	2	11	8	11	15	..	40
.....	....	....	....	....	.....	....	....	3	16	13	7	6	6	1	....	....	....	....	....	....	....	..	41
.....	....	....	....	....	.....	....	....	4	22	9	12	9	8	....	....	....	....	....	....	....	....	..	42
3	....	....	....	....	3	....	....	1	....	....	....	1	....	1	....	1	1	3	....	1	4	..	43
1	....	....	....	....	1	....	....	1	....	....	1	....	....	....	....	....	1	....	....	....	....	1	44
47	....	....	....	....	47	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	.	45
100	....	....	....	....	100	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	46
74	....	....	....	....	74	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	47
.....	....	....	....	....	.....	....	....	....	....	....	...	....	1	....	....	....	....	5	22	35	134	2	48
.....	....	....	....	....	.....	....	....	1	2	2	4	2	4	3	4	1	2	1	3	2	....	..	49
29	9	7	12	6	63	21	17	19	17	14	12	10	10	9	15	11	10	12	10	10	17	4	50
.....	....	....	....	....	.....	1	1	1	....	....	1	....	....	....	....	1	....	....	....	....	....	..	51
69	5	1	2	..	77	1	2	....	1	4	1	6	2	5	3	6	11	19	18	15	24	1	52

Table 17.—Concluded.- Causes of Death in Michigan, by months and ag

Line number.	Causes of death, 1901.	Total deaths, 1901.	Rate per 100,000 estimated population.	Months of deaths, 1901.											
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	D
1	ALL CAUSES	20,331	1,416.2	1,984	1,918	2,133	1,811	1,633	1,477	1,552	1,478	1,641	1,499	1,484	1
2	Typhoid fever	373	26.0	46	26	31	25	22	13	18	25	43	49	45	
3	Malarial fever	70	4.9	2	3	4	4	5	5	10	7	10	9	4	
4	Smallpox	10	0.7	.....	.....	1	.....	.....	5	1	.....	2	1	.....	
5	Measles	39	2.7	1	3	6	3	3	5	2	.....	1	1	5	
6	Scarlet fever	129	9.0	10	14	15	9	11	5	3	7	4	16	12	
7	Whooping cough	85	5.9	6	6	10	7	5	5	9	10	14	3	4	
8	Diphtheria and croup	243	16.9	37	28	14	22	19	9	5	8	22	23	29	
9	Influenza	748	52.1	131	218	201	80	43	16	9	4	4	10	9	
10	Dysentery	144	10.0	1	3	3	3	1	6	11	36	51	16	10	
11	Erysipelas	79	5.5	7	8	16	11	9	4	2	3	4	5	1	
12	Other epidemic diseases	34	2.4	1	2	3	1	.....	2	4	6	10	1	2	
13	Tuberculosis of lungs	1,301	90.6	147	108	133	120	118	102	99	90	93	99	92	
14	Other forms of tuberculosis	227	15.8	22	13	20	23	26	17	16	17	13	26	19	
15	Cancer	1,036	72.2	77	82	91	70	98	76	88	86	90	84	96	
16	Rheumatism	147	10.2	16	11	17	21	11	11	11	8	10	13	9	
17	Diabetes	172	12.0	22	19	19	14	15	12	11	7	7	8	21	
18	Other general diseases	374	26.1	26	30	30	37	34	45	30	23	33	27	31	
19	Meningitis	247	17.2	24	12	27	24	24	23	34	18	19	12	10	
20	Apoplexy	895	62.3	82	82	99	83	74	67	48	60	70	70	72	
21	Paralysis	576	40.1	60	63	65	51	41	47	38	27	46	50	35	
22	Convulsions	307	21.4	33	27	42	30	20	34	33	15	19	14	20	
23	Other nervous diseases	682	47.5	52	63	74	59	65	62	59	44	57	43	48	
24	Heart disease	1,923	133.9	182	164	168	189	163	159	146	140	147	127	156	
25	Other circulatory diseases	400	27.9	30	38	39	30	44	33	28	21	37	31	40	
26	Bronchitis	532	37.1	84	64	79	52	44	31	19	13	22	23	42	
27	Bronchopneumonia	307	21.4	46	45	63	30	19	12	8	5	3	18	22	
28	Pneumonia	1,403	97.7	204	235	218	175	103	67	34	20	35	59	93	
29	Other respiratory diseases	389	27.1	48	40	33	49	28	20	16	21	26	41	29	
30	Diseases of stomach	305	21.2	29	17	28	28	30	19	24	24	21	24	27	
31	Diarrhea and enteritis, under 2 years	905	63.0	18	19	27	23	34	71	184	186	201	91	22	
32	Diarrhea and enteritis, over 2 years	331	23.1	22	21	19	25	19	20	28	51	53	33	21	
33	Hernia and obstr. of bowels	212	14.8	19	17	21	16	13	15	15	12	20	20	20	
34	Cirrhosis of liver	140	9.8	13	11	12	17	14	12	17	13	6	10	10	
35	Other liver diseases	197	13.7	22	14	16	17	5	16	17	16	23	22	10	
36	Peritonitis	168	11.7	18	10	19	20	17	18	13	16	16	8	6	
37	Appendicitis	175	12.2	17	9	16	21	14	10	13	23	13	19	11	
38	Other digestive diseases	98	6.8	7	8	10	14	7	6	6	6	10	11	4	
39	Bright's disease	726	50.6	71	57	70	54	63	63	45	65	59	60	58	
40	Other genito-urin'y diseases	419	29.2	39	28	30	34	46	37	35	34	33	35	28	
41	Puerperal septicemia	146	10.2	12	11	22	19	17	7	12	9	8	9	10	
42	Other puerperal diseases	127	8.8	13	12	18	9	13	7	9	11	4	7	9	
43	Skin diseases	122	8.5	9	15	14	11	13	10	9	3	13	5	6	
44	Diseases locomotor system	24	1.7	1	1	1	5	3	2	1	2	1	3	1	
45	Malformations	169	11.8	16	20	17	14	17	16	11	15	12	8	11	
46	Premature birth	282	19.6	31	14	27	28	26	22	21	17	21	24	27	
47	Congenital debility	398	27.7	35	37	34	31	35	40	33	32	35	33	28	
48	Old age	806	56.1	72	78	90	81	65	53	64	58	52	61	48	
49	Suicides	164	11.4	10	14	12	14	9	11	14	18	11	25	13	
50	Accidents	1,029	71.7	67	57	64	69	78	96	141	93	94	79	123	
51	Homicides	12	0.8	.....	.....	1	2	1	2	1	1	2	1	1	
52	Causes ill-defined	504	35.1	46	41	44	37	40	31	47	52	41	41	34	

for the State and geographical sections, 1901.—Southern Counties.

Ages of decedents, 1901.																						
Ages in years under five.					Ages for five-year periods.																	Line number.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79	80 +	Unk.	
3,327	561	256	169	128	4,441	380	366	601	742	736	688	709	742	754	878	1041	1220	1542	1578	1637	2226	50	1
.....	1	2	5	3	11	18	27	50	56	45	30	41	22	13	14	8	10	14	4	6	4	..	2
1	2	2	1	2	8	1	5	4	6	9	2	2	3	2	4	1	4	2	4	7	5	1	3
1	....	....	....	....	1	2	....	....	1	1	....	....	....	2	....	....	....	1	1	....	1	..	4
11	7	7	....	1	26	3	....	2	2	....	....	1	1	1	....	1	....	....	1	....	1	..	5
11	18	16	17	14	76	31	7	5	3	2	3	2	....	....	....	....	....	....	....	....	....	..	6
46	24	6	1	2	79	5	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	7
17	29	28	26	22	122	64	29	9	4	4	4	2	2	1	1	....	1	....	....	....	....	..	8
54	7	3	....	1	65	9	5	16	14	9	14	16	19	16	35	39	61	82	68	108	171	1	9
15	10	7	4	....	36	2	....	1	....	....	3	2	1	....	5	5	8	13	16	18	34	..	10
13	1	....	....	....	14	....	2	1	1	2	3	3	6	6	7	3	4	5	6	7	9	..	11
2	2	1	1	1	7	4	....	....	1	....	....	....	1	1	1	1	3	4	3	3	5	..	12
12	6	6	2	2	28	9	30	137	182	194	150	121	100	65	74	71	53	38	20	26	3	..	13
17	16	5	4	2	44	9	6	15	25	15	21	12	11	12	16	16	6	9	1	8	1	..	14
2	....	3	2	....	7	3	2	4	11	10	25	47	69	86	105	118	139	140	124	80	64	2	15
1	1	1	....	....	3	8	11	8	3	4	4	5	11	5	5	7	18	15	19	11	10	..	16
3	....	2	....	1	6	9	8	11	7	9	6	7	10	9	12	14	12	25	12	8	7	..	17
61	5	6	1	1	74	3	7	12	20	16	27	31	21	32	20	19	19	25	23	17	8	..	18
80	30	12	9	9	140	22	9	11	10	10	9	7	5	7	2	3	....	3	3	4	2	..	19
19	4	1	2	....	26	3	8	1	9	8	11	11	15	32	51	72	87	146	137	127	150	1	20
4	....	....	....	....	4	....	5	....	3	4	4	9	20	17	25	42	50	70	94	93	134	2	21
267	21	4	1	1	294	2	1	1	4	....	....	1	....	....	....	....	2	....	1	....	1	..	22
46	4	9	4	2	65	17	13	30	13	24	25	36	47	43	32	44	55	70	63	58	43	4	23
35	4	1	3	2	45	8	25	20	25	24	35	47	75	81	117	164	203	261	264	274	255	..	24
12	3	2	3	1	21	1	2	8	13	10	13	12	11	14	21	37	36	58	49	50	44	..	25
169	46	6	9	7	237	5	1	2	4	9	6	5	3	7	11	18	18	34	44	51	77	..	26
132	26	15	1	6	180	7	2	4	1	1	6	6	5	3	7	10	8	17	17	12	21	..	27
247	57	20	15	17	356	23	33	44	37	53	49	52	56	67	62	63	74	91	117	95	128	3	28
60	13	6	7	3	89	9	4	11	15	8	11	12	15	17	22	17	23	31	32	31	41	1	29
69	7	1	2	....	79	5	2	4	5	7	3	6	12	12	15	10	21	21	26	36	40	1	30
756	149	....	....	....	905	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	31
.....	....	41	12	7	60	12	6	11	10	12	7	11	7	6	13	20	25	27	25	35	43	1	32
24	1	....	3	....	28	3	2	7	6	6	9	4	10	19	6	13	18	20	26	21	14	..	33
2	....	....	....	....	2	....	....	2	1	1	5	4	4	12	13	12	22	24	19	13	6	..	34
4	1	1	....	1	7	1	3	3	4	6	7	7	9	13	16	19	21	21	28	18	14	..	35
7	5	1	2	3	18	5	11	18	17	11	11	4	12	10	6	10	6	7	9	8	5	..	36
.....	1	....	1	2	4	13	35	31	20	23	10	10	6	1	4	5	4	4	2	1	2	..	37
24	8	6	1	....	39	1	4	1	....	3	3	2	....	3	6	4	5	9	5	3	10	..	38
14	4	1	....	....	19	3	4	15	24	25	25	23	32	35	41	64	85	84	80	98	67	2	39
11	....	1	5	2	19	6	3	4	12	20	21	26	30	21	25	16	30	33	55	36	62	..	40
.....	....	....	....	....	.....	....	....	9	39	39	32	17	8	1	....	....	....	....	....	....	....	1	41
.....	....	....	....	....	.....	...	1	6	32	28	29	18	10	3	....	....	....	....	....	....	....	..	42
12	3	1	....	2	18	1	1	1	....	2	3	3	1	3	2	7	4	12	11	21	32	..	43
4	4	1	1	....	10	1	....	3	....	1	....	....	1	....	....	4	2	1	....	....	1	..	44
153	3	5	3	....	164	2	....	1	1	....	....	1	....	....	....	....	....	....	....	....	....	..	45
282	....	....	....	....	282	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	46
398	....	....	....	....	398	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	47
.....	....	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	2	5	33	65	151	546	4	48
.....	....	....	....	....	.....	1	....	9	12	10	12	16	13	21	15	15	11	12	7	7	2	1	49
75	27	23	19	10	154	44	48	66	85	60	41	54	48	43	50	47	41	41	50	47	87	23	50
.....	....	....	....	....	.....	....	....	....	1	....	3	2	2	1	....	....	....	....	1	1	....	1	51
154	11	3	2	1	171	5	3	3	3	11	6	11	8	11	17	20	26	39	48	47	76	1	52

DISCUSSION OF INDIVIDUAL CAUSES OF DEATH, 1901.

The basis of this discussion will consist of the condensed list of causes shown in Table 17, by months and ages, for the State and the four geographical sections into which it is divided. For convenience a summary derived from these tables will be presented in connection with each cause.

DEATHS FROM ALL CAUSES.

The total number of deaths registered by means of certificates of deaths during the year 1901 was 32,834, corresponding to a mortality of 1,339.7 per 100,000 estimated population. This number is exclusive of 1,501 stillbirths returned as deaths. Compared with the immediately preceding years, which are given in all cases exclusive both of stillbirths and of a small number of deaths in nonregistration districts enumerated under an act repealed in 1901, we have:

Years.	Total deaths registered.	Death rates per 100,000 population.
1901	32,834	1,339.7
1900	32,453	1,340.5
1899	32,289	1,353.4
1898	28,174	1,199.0

The rates, more conveniently expressed as rates per 1,000 population, would be 13.4, 13.4, 13.5 and 12.0. We thus note that the registered mortality was almost exactly the same for the past three years, 1899-1901, and that it was somewhat higher than that shown for 1898. While 1898 was certainly a very favorable year, the fact that it was the first year of the operation of the registration law may have caused a somewhat less perfect return of deaths than during the following years.

The general distribution of deaths among the four geographical sections was as follows:

Geographical sections.	Total deaths, 1901.	Death rates per 1,000 population.
STATE OF MICHIGAN	32,834	13.4
I.—UPPER PENINSULA	3,388	12.5
II.—NORTHERN COUNTIES	3,654	12.1
III.—CENTRAL COUNTIES	5,461	12.4
IV.—SOUTHERN COUNTIES	20,331	14.2

Nearly two-thirds of the total number of deaths occurred in the Southern counties, and the general death rate of this section was somewhat higher than that of any other. This might be expected, as the Southern counties comprise the oldest-settled portion of the State, with an age-distribution of population less favorable than the newly-settled portions of the State. Possibly, also, registration is somewhat more accurate in the

more densely-settled parts of the State. All of the rates are very low, and a few years ago would have been regarded as quite certain evidences of imperfect registration. The fact, however, that the general death rates of some large cities have reached quite unexampled degrees of depression in recent years makes such rates as these more likely to be accepted as reasonable, and the thorough test given to the accuracy of the Michigan returns in 1900, precedent to its recognition as a registration State by the U. S. Census, would indicate that the peculiar combination of a vigorous and sturdy stock, a most healthful and agreeable climate, and a "campaign of education" as to the prevention and restriction of dangerous communicable diseases conducted by our progressive State Board of Health for many years, have in fact resulted in a phenomenal condition of well-being as respects the general health of the commonwealth, and especially a freedom from those devastating epidemics that raise the death rates in other less favored localities.

TYPHOID FEVER.

The total number of deaths compiled in this report from typhoid fever is 645, which number includes 30 deaths reported from the so-called "typho-malarial fever," a term which is undoubtedly equivalent to nothing more or less than typhoid fever in the vast majority of cases. Probably many of the 109 deaths reported directly from malarial fever were actually due to typhoid fever. It is curious how some physicians and persons otherwise intelligent will misrepresent or accept misrepresentations relative to the occurrence of certain diseases, thereby directly jeopardizing the health of the community through less careful disinfection and prevention of contact with the sick. The attack of fever beginning with a "touch of malaria" or as "biliousness," when it has continued a certain period without abatement, "runs into typhoid" or was "typho-malarial fever" from the start. Malarial fever does not "run into typhoid," any more than a seeding of wheat is likely to come up as a crop of oats. The two diseases are very rarely associated, as found by actual occurrence of the plasmodia of malaria and the bacillus typhosus in the same case, but the great majority of instances of what was supposed to be mixed infection or typhoid fever modified by malarial influences are pure and simple typhoid fever, whose protean forms and departure from the classical types of severity and order of symptoms may readily account for its failure to be recognized.

Following is a comparative statement of deaths and death rates from this disease, according to the final compilation of the returns as given in the registration reports, for the first four years of registration of deaths under the law of 1897:

Year.	Deaths from typhoid fever.	Death rates per 100,000 population.
1901	645	26.3
1900	839	35.9
1899	580	24.3
1898	572	24.3

It will thus be seen that the mortality from this cause was markedly less than for the preceding year, although somewhat higher than for either the years 1898 or 1899.

The maximum number of deaths in any month, 96, occurred in September, and the least number, 24, in June. By geographical sections, the highest death rate, 32.5 per 100,000, was in the Upper Peninsula, and the lowest, 22.0, in the Central counties. The rate of the Southern counties, 26.0, was slightly below the general rate for the State.

Table 18.—Deaths from typhoid fever in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	645	26.3	73	36	45	35	31	24	26	49	96	91	83	56
I.—Upper Peninsula	88	32.5	7	5	5	4	3	3	1	7	16	14	11	12
II.—Northern counties..	87	28.7	11	3	4	1	1	5	4	9	17	14	12	6
III.—Central counties..	97	22.0	9	2	5	5	5	3	3	8	20	14	15	8
IV.—Southern counties..	373	26.0	46	26	31	25	22	13	18	25	43	49	45	30

Deaths by sex, 1901.		Deaths by ages, 1901.*												
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
389	256	2	23	30	53	135	195	123	60	32	28	14	4

* Includes one death at unknown age.

SMALLPOX.

The distribution of deaths from smallpox is shown in Table 19. Although of small numerical importance as a cause of death, the remembrance of its fatality in the past still clings around this disease, and no epidemic cause attracts so much public attention and is considered worthy of so much effort and expense for the sake of immediate restriction as smallpox among all of the causes ordinarily prevalent in this State. There were 27 deaths during the year 1901, 9 in 1900, 6 in 1899, and only 1 in 1898. The character of the disease during its present appearance is one of extreme mildness, compared to what is usually the case, and the result is the more ready spread since public opinion will not always support thorough enforcement of the only effective restrictive measure, i. e., general vaccination and re-vaccination until immunity is secured.

Table 19.—Deaths from smallpox in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	27	1.1	1	1	3	1	1	6	2	1	4	2	2	3
I. Upper Peninsula.....	4	1.5	1	.....	.....	1	.....	.....	.....	.....	.....	.....	1	1
II. Northern counties..	6	2.0	.....	.....	1	.....	1	1	.....	.....	2	.....	1	.....
III. Central counties..	7	1.6	.....	1	1	.....	.....	.....	1	1	.....	1	.....	2
IV. Southern counties..	10	0.7	.....	.....	1	.....	.....	5	1	.....	2	1	.....	.....

Deaths by sex, 1901.		Deaths by ages, 1901.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
14	13	5	6	2	8	1	6	4	3	.....	3	1	1

Table 20.—Deaths from measles in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	79	3.2	3	5	10	6	5	12	10	1	3	2	8	14
I. Upper Peninsula.....	31	11.5	1	.....	1	3	2	7	8	.....	1	1	3	4
II. Northern counties..	1	0.3	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
III. Central counties..	8	1.8	1	2	2	.....	.....	.....	.....	1	1	.....	.....	1
IV. Southern counties .	39	2.7	1	3	6	3	3	5	2	.....	1	1	5	9

Deaths by sex, 1901.		Deaths by ages, 1901.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
42	37	22	60	7	67	2	2	1	4	1	.....	1	1

MEASLES.

Measles was unusually low as a cause of death during 1901, contrasted with the high fatality of the preceding year. There were only 79 deaths, while there were 342 in 1900, 187 in 1899, and 131 in 1898. The Upper Peninsula rate rose from 8.4 to 11.5 per 100,000, but all other parts of the state had very low death rates from this disease for the year. Distribution by ages, sex and months may be seen in Table 20.

SCARLET FEVER.

Scarlet fever showed an increase of mortality for the year compared with that for 1900, and both years were higher in this respect than the years preceding (1898-99). Deaths increased from 91 in 1898, 144 in 1899 and 272 in 1900 to 312 in 1901, the corresponding rates being, in order, 3.9, 6.0, 11.2 and 12.7 per 100,000 population. The order of mortality among the sections was the same in each of the years 1900 and 1901, but while the death rate fell considerably in the Upper Peninsula, it rose in the other sections.

Table 31.—Deaths from scarlet fever in Michigan, 1901.

Geographic sections	Total deaths, 1901	Death rate per 100,000 estimated population	Deaths by months, 1901											
			Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
State	312	12.7	33	42	45	21	31	17	9	17	6	21	29	42
I. Upper Peninsula	64	23.7	13	11	7	2	7	5	3	6	.....	.....	5	5
II. Northern counties	59	16.5	4	6	6	6	6	2	1	3	1	2	7	6
III. Central counties	89	15.6	6	11	17	4	7	5	1	1	1	3	5	8
IV. Southern counties	120	9.0	10	14	15	9	11	5	3	7	4	16	12	23

Deaths by sex, 1901		Deaths by ages, 1901.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9	Under 10 years	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
146	166	30	193	80	273	22	8	7	1	.....	1	.....	.....

WHOOPING COUGH.

Deaths from whooping cough decreased from 208 in 1900 to 163 in 1901. Very little attention is given to the restriction of this disease, whose mortality is almost entirely confined to the early years of life. The mortality, like that of most other children's diseases, was highest in the Upper Peninsula. For exact comparisons, rates based upon susceptible portion of early age must be employed.

Table 22.—Deaths from whooping cough in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	163	6.7	15	13	20	15	14	10	14	16	18	4	10	14
I. Upper Peninsula	24	8.9	1	3	5	1	2	3	4	1	1	.....	.....	3
II. Northern counties	22	7.3	2	1	1	1	5	1	.....	4	.....	.....	5	2
III. Central counties	32	7.2	6	3	4	6	2	1	1	1	3	1	1	3
IV. Southern counties	85	5.9	6	6	10	7	5	5	9	10	14	3	4	6

Deaths by sex, 1901.		Deaths by ages, 1901.												
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79	80 and over.
74	89	98	155	7	162	1	.....	.....	.....	.....	.....	.....	.....

DIPHTHERIA AND CROUP.

Deaths and death rates from diphtheria and croup for the past four years were as follows:

Years.	Deaths from diphtheria and croup.	Death rates per 100,000 population.
1901	502	20.5
1900	529	21.9
1899	435	18.2
1898	456	19.4

There has thus been some tendency toward an increased mortality from this disease in recent years, but the year 1901 showed a more favorable rate than that of the preceding year. About half of the deaths were those of children under five years of age, and, like scarlet fever and whooping cough, the death rates decreased in passing from the Upper Peninsula to the Southern counties. January showed the largest number of deaths from this cause, 71, and the smallest number occurred in July, 16. As compared with the preceding year, the slight decline in mortality was due to a lower death rate in the Southern counties, which fell from 20.0 to 16.9 per 100,000 population, the other sections all showing increased prevalence.

Table 23.—Deaths from diphtheria and croup in Michigan, 1901.

Geographical sections	Total deaths, 1901	Death rate per 100,000 estimated population.	Deaths by months, 1901. Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	802	20.5	71	47	36	41	41	18	16	22	49	50	60	51
I Upper Peninsula	81	29.9	16	6	5	4	4	1	2	6	14	6	12	5
II Northern counties	81	26.7	10	4	4	7	11	2	6	4	9	7	7	10
III Central counties	97	22.0	5	9	13	8	7	6	3	4	4	14	12	9
IV Southern counties	243	16.9	37	28	14	22	19	9	5	8	22	23	29	27

Deaths by sex, 1901. Males	Females	Deaths by ages, 1901. Under 1 year	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
[illegible]	[illegible]	38	246	140	386	83	19	7	4	1	2	.....	.....

Table 24. Deaths from influenza in Michigan, 1901.

Geographical sections	Total deaths, 1901	Death rate per 100,000 estimated population	Deaths by months, 1901. Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	1,090	44.8	179	343	292	117	65	22	13	4	6	13	13	32
I Upper Peninsula	30	9.6	1	12	5	2	2	1	1	.....	.....	1	.....	1
II Northern counties	101	34.0	14	29	34	10	9	1	1	.....	1	2	1	1
III Central counties	[illegible]	30.3	33	84	32	25	11	4	2	.....	1	.....	3	7
IV Southern counties	49	30.1	131	218	201	80	43	16	9	4	4	10	9	23

Deaths by sex, 1901. Males	Females	Deaths by ages, 1901.* Under 1 year	Under 5 years	5 to 9	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
[illegible]	[illegible]	111	140	19	188	28	34	48	54	103	194	257	222

* [illegible] death at unknown age.

INFLUENZA.

This disease again prevailed with almost epidemic prevalence, according to the reports received, during certain months of the year 1901. The total number of deaths was more than double the number recorded for the preceding year, although considerably lower than the number registered for 1899. Following is a comparative statement of deaths and death rates from this cause for the last four years:

Years.	Deaths from influenza.	Death rates per 100,000 population.
1901	1,099	44.8
1900	500	20.7
1899	1,673	70.1
1898	455	19.4

The deaths from influenza are usually recorded in a very few months of the years, rapidly rising in winter and declining with the coming of warm weather. Thus in 1901, there were 179 deaths from "grippe" in January, 343 in February, the maximum monthly number for the year, 292 in March, from which time the number rapidly declined until August with only 4 deaths from this cause, some of which may have been of very remote duration. From the minimum in August, the number of deaths slowly increased until December, for which 32 deaths from this cause were compiled. For December, 1900, there were only 29 deaths, or less than one-sixth of the number in the following month. In the epidemic year 1899 also the maximum mortality from influenza, 690 deaths, was in February, and the rapid rise from 49 deaths in December, 1898, to 400 deaths in January, 1899, quite corresponds to the situation during the present year.

It should be remembered in studying the variations of the mortality from influenza that the term is not always a very definite statement of cause of death. As returned, it frequently accompanies statements of deaths from diseases of the respiratory system, such as pneumonia, bronchopneumonia, bronchitis, and the like, which may or may not have been, in fact, due to actual infection with the specific germ of influenza. A prevalent disorder of this character, especially one which may affect almost every organ and system of the body as profoundly as genuine influenza may do, is bound to obtain the credit for a good deal of damage that it may actually not be responsible for. It may, of course, be said that the presence of influenza has influenced the course and termination of many other diseases, and in this sense, as a contributory cause, the total number of deaths chargeable to this disease may not only not be overestimated but may be even less than the truth. It would be desirable, although this has not been very commonly done, that influenza should be studied in connection with all of the diseases of the respiratory system, including also pulmonary tuberculosis, before any final opinion as to its effect upon general mortality be formed.

As to sex, males suffer a greater numerical loss, while the age-distribution is characterized, as is usually the case, by the large percentage of elderly persons who succumb.

TUBERCULOSIS.

There were 2,532 deaths in Michigan during the year 1901 from all forms of tuberculosis, according to the returns made by physicians. This represents a slight increase from the number compiled for the preceding year, but a general decrease of both years as compared with 1898 and 1899 in the following statement:

Years.	Total deaths from all forms of tuberculosis.	Death rates per 100,000 population.
1901	2,532	103.3
1900	2,478	102.4
1899	2,694	112.9
1898	2,826	120 2

The fact that the mortality from all forms of tuberculosis was considerably greater in 1898 than in any of the last three years, although the general death rate for 1898 was unusually low, is of interest. It may, perhaps, point to a tendency among physicians to report deaths really due to tuberculosis more frequently from the immediate cause or complication than formerly, or it may be that the increasing mortality from pneumonia has removed individuals whose deaths would ordinarily have occurred from tuberculosis. The violent fluctuations of mortality from influenza during the past four years do not appear to have been accompanied by corresponding changes in the incidence of deaths from tuberculosis.

When we come to the more detailed study of the forms of tuberculosis, we find difficulty in making comparisons for the four years on account of an important change in classification in 1901 and also to enhanced care in obtaining additional statements from physicians in regard to certain facts affecting the statistics of 1899 and 1900.

The primary cause of the trouble was the carelessness with which physicians not infrequently fill out the medical certificate of cause of death. In many cases of death from tuberculosis, as from cancer, the organ or part of the body affected is not stated. When a death occurs from pulmonary tuberculosis or tuberculosis of the lungs, it is desirable to state that fact exactly, instead of merely reporting "tuberculosis," without any additional explanation as to the seat of the disease. A death so [illegible]ted might be confined to the meninges (tuberculous meningitis), [illegible]ritoneum (tuberculous peritonitis), or to many other organs or [illegible]he body. We have found that the great majority of deaths so [illegible] without proper specification, are in reality, at least in this [illegible]othing more or less than deaths from pulmonary tuberculosis, [illegible]act was not accepted at the time when the original form of the

Bertillon system was framed. This system of classification was adopted in the first Michigan report under the new law, namely, that for the year 1898, and continued to be in force up to the completion of the compilation for the year 1900. This system did not include a death returned from "tuberculosis," without qualification, under pulmonary tuberculosis, but relegated it to another title of the classification, namely, "general tuberculosis." Beginning with 1901, the revised Bertillon system, now known as the International classification, was adopted. The revised classification, recognizing the fact that the great majority of deaths returned from "tuberculosis" are due to pulmonary tuberculosis, places them under that title. The result is, evidently, that pulmonary tuberculosis is relatively higher and other forms of tuberculosis, including under the latter title all varieties of tuberculosis not pulmonary, is relatively lower for the year 1901 than for the years 1898, 1899 and 1900.

In the following statement may be found the comparative figures compiled for pulmonary tuberculosis and other forms of tuberculosis for the past four years:

Years.	Deaths compiled from pulmonary tuberculosis.	Deaths compiled from other forms of tuberculosis.
1901	2,152	380
1900	2,018	460
1899	2,098	596
1898	2,153	673

The total number of deaths from pulmonary tuberculosis in 1901 is only one less than the number compiled for this cause in 1898, but the number for 1901 includes a considerable number of deaths from "tuberculosis" which the number for 1898 excludes. Consequently there has been a more considerable numerical decrease in the number of deaths from pulmonary tuberculosis between the two years than the figures would indicate. On the other hand, the decrease of deaths from other forms of tuberculosis from 673 in 1898 to 380 in 1901 is much greater than the facts will warrant, since a certain number of deaths from "tuberculosis" raise the number for the former year. And even for the three years 1898, 1899 and 1900, the data for which were compiled according to the old Bertillon system with exclusion of deaths from "tuberculosis" from pulmonary tuberculosis, direct comparisons cannot be made on account of the increased accuracy of the returns in the last two years, and particularly in 1900, as compared with 1898, where the original certificates were accepted without attempt at correction. As stated in the report for 1899, p. lxiii, letters asking for more specific information were sent to all physicians reporting deaths from "tuberculosis," and the result was that many such cases were definitely stated to be pulmonary tuberculosis and were so compiled. Probably also the knowledge thus diffused among the profession as to the necessity of such statement resulted in a decreased number of such original returns, so that the later years showed a marked amount of improvement. While such changes and irregularities are annoying, they

are necessary incidents of improvements or revisions of existing methods, and cannot always be avoided unless we could possess knowledge of what future opinions and information would be.

The distribution of mortality from pulmonary tuberculosis and from the forms of tuberculosis not reported as pulmonary may be seen for the year 1901 in Tables 25 and 26. The latter group, comprising a total of 380 deaths for the year, includes 22 deaths reported from tuberculosis of the larynx, 93 deaths from tuberculous meningitis, 132 deaths from abdominal tuberculosis, 29 deaths from Pott's disease of the spine, 3 deaths from tuberculous abscess, 17 deaths from "white swelling," that is, tuberculosis of the knee-joint chiefly, 38 deaths from tuberculosis of other organs, and 46 deaths from general tuberculosis. The last item includes only deaths so returned, and does not include deaths in which two or more organs or parts of the body were stated to be affected by the tuberculous process. Ordinarily such cases involve pulmonary tuberculosis, and are compiled under that head as being of greater practical use in that form of statement. The exact progression of tuberculous infection from one part of the body to another can rarely be learned from certificates of death, and when the most common and thoroughly-studied form of the disease is present, it would seem to be of first importance to compile under this head.

The death rates from tuberculosis of the lungs were about the same in the Upper Peninsula and Southern counties, and considerably lower in the Northern and Central counties. More females than males succumbed to the disease during the year, and the largest number of deaths, 632, occurred during the ten-year period of life from 20 to 29 years, both inclusive. The maximum monthly number of deaths was 246 in January, while the minimum fell in November, with only 141 recorded.

Table 25.—Deaths from tuberculosis of lungs in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	2,152	87.8	246	176	217	209	210	178	165	159	145	159	141	147
I. Upper Peninsula.....	246	90.9	28	21	17	23	21	27	20	23	21	12	22	11
II. Northern counties...	233	76.8	31	15	28	31	28	17	13	18	9	20	11	12
III. Central counties...	372	84.3	40	32	39	35	43	32	33	28	22	28	16	24
IV. Southern counties...	1,301	90.6	147	108	133	120	118	102	99	90	93	99	92	100

Deaths by sex, 1901.		Deaths by ages, 1901.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
958	1,194	25	54	19	73	298	632	429	293	213	135	70	8

* Includes one death at unknown age.

From other forms of tuberculosis the highest death rate was in the Upper Peninsula as in the pulmonary form, but the Southern counties showed a somewhat lower mortality than the Central counties, contrary to the indications for the latter. There were more deaths of males than of females, and the deaths in the first decade of life, 101, bore a larger ratio to the total number than the deaths in the corresponding period of pulmonary tuberculosis. In general, the forms included under this group are characterized by prevalence among children, some of them, in fact, being probably obscure forms of marasmic disease not demonstrable as tuberculosis, and the conclusions from examination of the tables must be qualified to some extent by the uncertainty as to diagnosis in these cases.

Table 26.—Deaths from other forms of tuberculosis in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	380	15.5	31	21	41	45	40	29	25	26	26	36	30	30
I. Upper Peninsula.....	48	17.7	4	5	5	6	5	3	2	1	4	4	4	5
II. Northern counties...	34	11.2	2	.....	6	5	2	2	3	1	3	2	4	4
III. Central counties...	71	16.1	3	3	10	11	7	7	4	7	6	4	3	6
IV. Southern counties...	227	15.8	22	13	26	23	26	17	16	17	13	26	19	15

Deaths by sex, 1901.		Deaths by ages, 1901.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
198	182	36	82	19	101	47	67	49	37	39	25	12	3

CANCER.

A slight increase may be noted in the mortality compiled from cancer for 1901 over that of the preceding year. The deaths and death rates for the past four years are as follows:

Years.	Deaths from cancer.	Death rates per 100,000 population.
1901	1,484	60.5
1900	1,460	60.3
1899	1,334	55.9
1898	1,321	56.2

The mortality by months was quite uniform for the year, as indicated in Table 27; the maximum number of deaths, 142, was in May, while the minimum number, 103, was in April. As usual the death rate of the Southern counties from this disease was much higher than that of any other section of the State, owing largely to a more unfavorable age distribution of the population. As shown in the table, the largest numbers of deaths occur at advanced ages, so that where there is an excess of elderly persons, as in the Southern counties, the mortality from cancer may be expected to run higher than in the newly-settled portions of the State where the majority of the inhabitants are younger.

Table 27.—Deaths from cancer in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	1,484	60.5	110	122	123	103	142	110	125	129	134	124	129	133
I. Upper Peninsula.....	95	35.1	5	12	5	4	9	12	4	11	8	13	7	5
II. Northern counties...	127	41.9	12	7	12	13	12	8	15	17	14	2	8	7
III. Central counties...	226	51.2	16	21	15	16	23	14	18	15	22	25	18	23
IV. Southern counties...	1,036	72.2	77	82	91	70	98	76	88	86	90	84	96	98

Deaths by sex, 1901.		Deaths by ages, 1901.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
637	847	4	11	4	15	10	29	104	231	336	393	277	86

* Includes three deaths at unknown ages.

The comparative rates for the past four years of registration as given above would seem to show some tendency toward an increase in the death rate from cancer in this State, although the very short period of time covered by the statistics is not sufficient to base any definite opinion upon. It is unfortunate that we cannot go backward in this State for a long series of years, or, at least, for the entire time covered by the operation of the old registration law which was enacted in 1867, and from comparison of the statistics collected thereunder with our present returns be enabled to present some conclusive evidence as whether this disease is or is not increasing in prevalence in Michigan. According to statistics compiled in many parts of the world cancer is on the increase, at least as a factor in the gross mortality. The question as to whether cancer is actually increasing in prevalence after full allowance has been made for changes in the age and sex distribution of population and for more accurate diagnosis on the part of the reporting physicians is a more difficult one. In Michigan the question presents peculiar embarrassments from the fact that the returns of deaths under the old law providing for their enumeration annually by supervisors and assessors, which law was in force from 1867 to

1897, were on a quite different basis from the physicians' certificates which constitute the returns of deaths under the registration law of 1897. There was a very considerable increase in the mortality from cancer from 1897 (death rate of 32.6 per 100,000 population) to 1898 (death rate of 55.9), but it is certain that this was largely due to increased accuracy of registration in general, many deaths being recorded under the new law that would have otherwise failed to be put upon record. The ratio of deaths from this disease to deaths from all causes, stillbirths excluded, shows a slight increase as may be noted in Table 28, but one which is in keeping with the fairly uniform tendency in this direction as shown by the comparison of the five-year averages in this table.

Table 28.—Ratio of deaths from cancer to deaths from all causes registered in Michigan, exclusive of stillbirths, for the years 1870-1902.

Years and periods.	Deaths from all causes, stillbirths excluded.	Deaths from cancer.	Per cent.
Years:			
1870	10,540	120	1.1
1871	9,460	105	1.1
1872	13,167	133	1.0
1873	13,984	172	1.2
1874	12,036	188	1.6
1875	11,361	203	1.8
1876	11,930	241	2.0
1877	12,199	266	2.2
1878	11,973	269	2.2
1879	13,658	272	2.0
1880	15,364	284	1.8
1881	18,547	310	1.7
1882	15,633	301	1.9
1883	16,022	383	2.4
1884	17,137	361	2.1
1885	15,638	403	2.6
1886	17,278	391	2.3
1887	18,585	453	2.4
1888	20,406	480	2.4
1889	19,113	492	2.6
1890	20,245	533	2.6
1891	20,989	534	2.5
1892	20,715	558	2.7
1893	20,963	644	3.1
1894	19,957	677	3.4
1895	21,648	757	3.5
1896	20,729	780	3.8
1897	19,150	760	4.0
1898*	28,248	1,321	4.7
1899*	32,500	1,334	4.1
1900*	32,558	1,469	4.5
1901*	32,834	1,484	4.5
1902*	31,472	1,483	4.7
Five-year periods:			
1872-76	12,496	187	1.5
1877-81	14,348	286	2.0
1882-86	16,342	368	2.3
1887-91	19,868	498	2.5
1892-96	20,802	683	3.3
1898-1902	31,523	1,416	4.5
Twenty-five year period:			
1872-96	16,771	403	2.4

* Under new law.

The study of mortality from cancer is further complicated by the fact that a certain number of deaths from this disease are returned from "tumor," so that it is advisable to consider the mortality from this indefinite return in connection with the deaths from cancer. In the Michigan Registration Report for 1897, Appendix B, pages 234-241, the deaths compiled from cancer and from tumor are given for all of the years included under the operation of the old law, 1867-97, and in Tables 29 and 30 certain comparisons with population and other ratios are given on the basis of these data, together with the corresponding results derived from the first five years of registration under the new law, 1898-1902. Before proceeding to these tables, however, it may be of interest to examine certain exhibits derived from them and originally published in the Michigan Monthly Bulletin of Vital Statistics for November, 1902, and also a paper read before the Sixth General Conference of the Health Officials in Michigan at Ann Arbor, January 15-16, 1903, on the same subject, the latter containing a diagram which enables the course and variations in age distribution of cancer to be seen graphically represented.

INCREASE OF CANCER IN MICHIGAN.*

For some years the attention of statisticians and sanitarians has been directed to the apparent increase of the mortality from cancer in various parts of the world. In the Michigan registration reports the diagrams showing the death rates from various diseases indicate a constant increase in the mortality from cancer. The steady upward march of this disease contrasts remarkably with the sharp fluctuations from year to year of most of the other diseases represented. A somewhat similar appearance is presented by the diagram showing the monthly mortality from cancer as registered in the *Bulletin of Vital Statistics* for the two years 1899-1900 (frontispiece to Vol. III). Here, while the increase is of course less than in the diagrams showing the annual rates, one can almost see cancer increasing in this State from month to month. The opinion is general that there has been a remarkable increase in the death rate from this disease, although some evidence has been adduced by eminent statisticians to the effect that the increased mortality may be partly owing to differences in reporting. Without entering into the merits of this discussion, it seemed desirable to present some of the statistics relating to the subject in Michigan, more especially as a committee of the State Board of Health has recently been appointed to investigate this subject. This paper is, however, only to be regarded as a preliminary note showing the general character of the data and the indications resulting from the first and possibly somewhat cursory study of the subject.

The material upon which this analysis is based may be found in the appendix to the Thirty-first Registration Report of Michigan, 1897, pages 234-241, with the addition of data from the registration reports since 1897. In the report for 1897, the deaths from cancer and "tumor" are tabulated from all of the Michigan registration reports from 1867 to 1897. "Tumors" are included because, as will appear in this discussion, they bear a certain relation to the deaths from cancer more or less dependent upon the accuracy of the original returns. Probably many such deaths are, in fact, deaths from cancer, and hence should be considered in connection with this subject.

* Article in Michigan Monthly Bulletin of Vital Statistics, November, 1902.

EXHIBIT A.—Deaths in Michigan from cancer and "tumor," by sex, for years and periods of years, 1870–1900.

Years and periods.	Cancer.			"Tumor."		
	Total.	Males.	Females.	Total.	Males.	Females.
Years:						
1870	120	47	73	23	6	17
1871	105	48	57	32	11	21
1872	133	58	75	31	7	24
1873	172	75	97	48	18	30
1874	188	84	104	34	14	20
1875	203	73	130	55	13	42
1876	241	118	123	41	12	29
1877	266	125	141	45	16	29
1878	269	116	153	56	14	42
1879	272	124	148	65	23	42
1880	284	111	173	76	29	47
1881	310	112	198	86	24	62
1882	301	139	162	68	16	52
1883	383	160	223	58	14	44
1884	361	173	188	85	26	59
1885	403	183	220	104	30	74
1886	391	171	220	91	23	68
1887	453	185	268	92	21	71
1888	480	193	287	108	35	73
1889	492	202	290	102	28	74
1890	533	235	298	123	33	90
1891	534	214	320	157	38	119
1892	558	246	312	139	36	103
1893	644	284	360	156	43	113
1894	677	269	408	149	41	108
1895	757	312	445	172	48	124
1896	780	325	455	161	43	118
1897	760	333	427	135	49	86
1898*	1,321	549	772	79	22	57
1899*	1,334	560	774	45	9	37
1900*	1,469	588	881	46	15	31
Five-year periods:						
1872–76	937	408	529	209	64	145
1877–81	1,401	588	813	328	106	222
1882–86	1,839	826	1,013	406	109	297
1887–91	2,492	1,029	4,463	562	155	427
1892–96	3,416	1,436	1,980	777	211	566
1898–1900*	4,115	1,708	2,407	170	45	125
Twenty-five year period:						
1872–96	10,085	4,287	5,798	2,302	645	1,657

* Deaths for the years 1898–1900 registered under law requiring certificates of death by physicians and burial permits before interment. Aggregate of three years is given.

In Exhibit A may be seen the total number of deaths by sex for each of the years 1870-1900, with the aggregate for five consecutive quinquennial periods from 1872 to 1896, and also the aggregate number of deaths registered under the new law from the years 1898 to 1900. The total number of deaths for the twenty-five years 1872-96 is also shown, amounting to 10,085 deaths from cancer and 2,302 deaths from "tumor."

In most of the tables following, the twenty-five years 1872-96, inclusive, are selected as the basis for discussion for the reason that prior to 1872 the statistics of deaths, were not tabulated by quinquennial periods and

ages throughout, so that the rates by ages cannot be obtained uniformly prior to that date. It seemed advisable to terminate with the year 1896, omitting the year 1897, because we thus have a complete quarter-century, readily divisible into five quinquennial periods, and also because for the last three months of the year 1897 certificates of death were on file in all the township, village and city registration offices of the state, and *might* have been consulted by supervisors in making their returns. It is desirable to preserve a sharp line of demarcation between the returns under the old and imperfect law, and the returns under the present approximately correct system of registration.

EXHIBIT B.—Death rates in Michigan from cancer and "tumor," by sex, per 100,000 estimated population, for years and periods of years, 1870-1900.

Years and periods.	Cancer.			"Tumor."		
	Total.	Males.	Females.	Total.	Males.	Females.
Years:						
1870	10.1	7.6	12.9	1.9	1.0	3.0
1871	8.6	7.5	9.8	2.6	1.7	3.6
1872	10.6	8.8	12.5	2.5	1.1	4.0
1873	13.3	11.1	15.7	3.7	2.7	4.8
1874	14.1	12.0	16.3	2.5	2.0	3.1
1875	14.7	10.1	19.7	4.0	1.8	6.4
1876	16.8	15.7	18.0	2.9	1.6	4.2
1877	17.9	16.0	20.0	3.0	2.1	4.1
1878	17.5	14.4	21.0	3.6	1.7	5.8
1879	17.1	14.9	19.7	4.1	2.8	5.6
1880	17.3	12.9	22.3	4.6	3.4	6.1
1881	18.3	12.6	24.7	5.1	2.7	7.7
1882	17.2	15.1	19.6	3.6	1.7	6.3
1883	21.3	16.9	26.1	3.2	1.5	5.2
1884	19.5	17.8	21.4	4.6	2.7	6.7
1885	21.3	18.4	24.5	5.5	3.0	8.2
1886	20.2	16.9	23.9	4.7	2.3	7.4
1887	23.0	17.9	28.5	4.7	2.0	7.5
1888	23.8	18.3	29.9	5.4	3.3	7.6
1889	24.0	18.8	29.5	5.0	2.6	7.5
1890	25.5	21.5	29.7	5.9	3.0	9.0
1891	25.1	19.3	31.3	7.3	3.4	11.6
1892	25.7	21.8	30.0	6.4	3.2	9.9
1893	29.2	24.8	33.9	7.1	3.8	10.6
1894	30.2	23.2	37.7	6.6	3.5	10.0
1895	33.3	26.5	40.6	7.6	4.1	11.3
1896	33.9	27.3	40.9	7.0	3.6	10.6
1897	32.6	27.6	37.9	5.8	4.1	7.6
1898*	55.9	45.0	67.6	3.3	1.8	5.0
1899*	55.8	45.4	66.9	1.9	0.6	3.2
1900*	60.3	48.0	73.5	1.9	1.2	2.6
Five-year periods:						
1872-76	14.0	11.6	16.5	3.1	1.8	4.5
1877-81	17.7	14.1	21.6	4.1	2.5	5.9
1882-86	19.9	17.0	23.1	4.4	2.2	6.8
1887-91	24.3	19.2	29.8	5.7	2.9	8.7
1892-96	30.5	24.8	36.7	6.9	3.6	10.5
1898-1900*	57.3	46.1	69.3	2.4	1.2	3.6
Twenty-five year period:						
[illegible]	22.3	18.1	26.8	5.1	2.7	7.7

[illegible]aths for the years 1898-1900 registered under the law requiring certificates of death by physi- and burial permits before interment. Average of the three-year period is taken for comparison [illegible] preceding quinquennial periods.

In examining Exhibit A, the large increase in the number of deaths yearly reported (from 120 in 1870 to 1,460 in 1900) may be accounted for largely by two factors besides that of a possible increase in the mortality from cancer. These are, first, the large increase in the population of the state, and, second, the increased accuracy of registration. As to the latter, it is probable that the percentage of imperfect returns did not vary markedly from 1870 to 1897, but with the operation of the present registration law in 1898 it appears that a very great increase of accuracy took place, so that the statistics for the years 1898-1900 cannot be compared directly with those for the preceding years. As regards the factor of increased population, this may be removed to a certain extent by examining, not the returns of deaths for each year, but the death rates based upon enumerated and estimated populations, as shown in Exhibit B.

It will be observed in Exhibit A that the number of deaths from cancer registered for only three years under the new law, 4,115, is over 40 per cent of the total number of deaths from cancer registered for a quarter of a century under the old law, while the number of deaths from "tumor" for the three years under the new law is less than the number for any quinquennial period under the old law, even the first, 1872-76, when the population was much smaller than it is at present. This possibly indicates that physicians, who are now responsible for certificates of death, are much less apt to use the objectionable term "tumor" than the supervisors who formerly collected the mortality statistics.

Exhibit B shows the death rates for males, females, and for the aggregate of both sexes, per 100,000 population, from cancer and "tumor" for the same years and periods as the original deaths were shown in Exhibit A. It is evident that the gross death rates have increased for these diseases, although not nearly as much as the deaths themselves as shown in the preceding table.

The steady increase in the death rates from cancer may be followed from year to year, and in the five-year periods it will be seen that for both sexes, the death rates from cancer and "tumor" are higher for each quinquennial period than for the preceding one. To this statement there is only a single exception, of slight importance, namely, that the death rate of males from "tumor" for the period 1882-86 was only 2.2 per 100,000 population, and 2.5 for the preceding period. Otherwise the increase is general. In making this statement, no reference is made to the rates under the new law, which affords a very large increase of deaths from cancer owing to the increased accuracy of registration and a decrease in the rates from "tumor" owing to the greater precision of physicians in reporting causes of death.

Another important element to be considered in discussing the question of the increase of cancer is the variations of the age constitution of the population. Exhibit C has been prepared in order to show the death rates from cancer per 100,000 population at certain periods of age, namely, under 15 years, 15-29 years, 30-44 years, 45-64 years, and 65 years and over. The deaths occurring at each of these ages are compared with the corresponding population, the distinction of sex being made in each case.

Cancer is a disease that is seldom found in the young, so that the first two groups of ages shown in Exhibit C are of little consequence, except as they show the insignificance of the rates at these ages. Beginning with the group of 30-44 years, the mortality from cancer rapidly increases.

EXHIBIT C.—Death rates in Michigan from cancer per 100,000 population of same sex and period of age, for periods of years, 1872-1900.

Quinquennial periods.	Sex.	All ages.	Periods of age.				
			Under 15 years.	15 to 29.	30 to 44.	45 to 64.	65 years and over.
1872-76	Males	11.6	2.7	1.2	6.9	35.8	114.0
	Females	16.5	2.3	2.6	15.4	65.4	131.0
1877-81	Males	14.1	1.7	1.8	7.3	43.7	148.1
	Females	21.6	2.4	2.6	21.6	86.5	144.0
1882-86	Males	17.0	2.3	1.5	8.7	49.3	173.6
	Females	23.1	1.9	3.6	24.2	82.9	156.9
1887-91	Males	19.2	1.9	2.2	9.6	53.6	178.6
	Females	29.8	2.2	3.9	31.3	100.6	187.5
1892-96	Males	24.8	1.0	2.5	11.5	70.7	219.1
	Females	36.7	0.9	4.1	34.2	129.1	224.1
1898-1900*	Males	46.1	2.9	3.6	21.0	119.6	403.7
	Females	69.3	1.9	7.7	57.1	218.3	476.7

* Three-year period under new law.

As a convenient means of comparison, Exhibit D has been constructed showing the percentage of increase of the mortality at each age and sex in one quinquennial period as compared with the corresponding items of the preceding quinquennial period, and also the percentage of increase of the death rates of the final period, 1892-96, over the first quinquennial period, 1872-76. The latter comparison shows what may be called the net increase of the twenty years.

EXHIBIT D.—Per cents of increase* of death rates in Michigan from cancer per 100,000 population of same sex and periods of age in preceding quinquennial periods, 1872-96.

Quinquennial periods compared.	Sex.	All ages.	Periods of age.—Per cents of increase* over preceding periods.				
			Under 15 years.	15 to 29.	30 to 44.	45 to 64.	65 years and over.
From 1872-76 to 1877-81	Males	21.6	*37.0	50.0	5.8	22.1	29.9
	Females	30.9	4.3	0.0	40.3	32.3	9.9
From 1872-81 to 1882-86	Males	20.6	35.3	*16.7	19.2	12.8	20.6
	Females	6.9	*20.8	38.5	12.0	*4.2	9.0
From 1882-86 to 1887-91	Males	12.9	*17.4	46.7	10.3	8.7	0.0
	Females	29.0	15.8	8.3	29.3	21.4	19.5
From 1887-91 to 1892-96	Males	29.2	*47.4	13.6	19.8	31.9	22.7
	Females	23.2	*59.1	5.1	9.3	28.3	19.5
From 1872-76 to 1892-96	Males	113.8	*63.0	108.3	66.7	97.5	92.2
	Females	122.4	*60.9	57.7	122.1	97.4	71.1

* *Decrease* from the corresponding rate for the preceding five-year period is indicated by an asterisk (*).

We observe in Exhibit D that the per cents of increase for the first two age periods are very irregular, and that in a considerable proportion of cases, no increase, but rather a decrease, was shown. These results are of no significance. In the latter three age periods, however, embracing all

ages from 30 years upwards, we observe that an increase is shown for each age and period considered, with only two exceptions, one of which shows an equality between the rates at two consecutive quinquennial periods. In the latter case, which occurs in the period 1887-91, we observe a general lessening of the amounts of increase for males as compared with the preceding period. This proportion appears to increase with age. It is possible that this irregularity may be due to the abnormal number of deaths of elderly males during the prevalence of the great influenza epidemic which occurred in this period. As a consequence, there would be fewer deaths reported from cancer.

In comparing the net amount of increase of the last quinquennial period, 1892-96, over the first period, 1872-76, we note that the mortality of both males and females has more than doubled, and that with the exception of the insignificant rates under 15 years of age, the death rates at each age period have regularly increased in the neighborhood, approximately, of 100 per cent.

The preceding observations of Exhibits C and D show that the mortality from cancer in Michigan has increased, not only for the population as a whole, but at each of the important age periods. In Exhibit E an attempt is made to measure the probable effect of this increase with reference to the distribution of the population. The method employed is substantially that used by Dr. Körösi for the computation of the mortality index with reference to the varying distribution of the population in different countries. Comparing the percentages of population of Michigan according to the United States Census of 1870 with the corresponding figures for 1890, we observe that there has been a decrease in the proportion of children under fifteen years of age from 1870 to 1890. This, in itself, would favor an increased rate from cancer in the latter year, since this age period shows an extremely low death rate from this disease. On the other hand, the marked increase in the percentage of population over 65 years would also favor an increased death rate in the latter year. Taking the actual death rates at each of the several age periods in 1890 and multiplying by the percentages of the corresponding age periods in 1870, we find by the summation of the coëfficients that the death rate from cancer in Michigan in 1890, which was 21.5 per 100,000 population for males, would have been approximately 17.2 per 100,000 if the population had been as favorably distributed in 1890 as it was in 1870. In like manner, the death rate from cancer for females in 1890, 29.7 per 100,000 population, would have been only 23.7 if the population had been as favorably distributed in 1890 as it was in 1870. The actual death rates in 1890 for both males and females were about 25 per cent higher than they would have been if the age distribution of 1870 had been maintained. Now we find, on referring to Exhibit B, that the actual death rates from cancer in 1870 were only 7.6 per 100,000 population and 12.9 per 100,000 population, so that the increase of the death rates in 1890 over 1870 would be 182.9 per cent and 130.2 per cent respectively. It is thus seen that the per cents of increase (25.0 and 25.3), due to the variations in the age distribution of the population, would only partially explain the large per cents of increase.

EXHIBIT E.—Mortality index for cancer in Michigan, by sex, 1890, on basis of age distribution of population in 1870.

Periods of age.	Population of Michigan, 1870.				Population in Michigan, 1890.				Deaths from cancer, 1890.		Death rates from cancer per 100,000 population, 1890.		Products.	
	Males.		Females.		Males.		Females.		Males.	Females.	Males. (b)	Females. (b')	Males. (a+b)	Females. (a'+b')
	Number	Per cent. (a)	Number.	Per cent. (a')	Number.	Per cent.	Number.	Per cent.						
ALL AGES*	617,738	100.0	566,309	100.0	1,088,697	100.0	1,000,765	100.0	235	298	21.5	29.7	.....	.....
Under 15 years	228,986	37.1	221,805	39.2	352,055	32.3	343,026	34.3	7	7	2.0	2.0	0.7420	0.7840
15 to 29 years	173,227	28.0	162,999	28.8	301,575	27.7	285,093	28.5	5	9	1.7	3.2	0.4760	0.9216
30 to 44 "	115,858	18.8	103,268	18.2	223,136	20.5	189,943	19.0	35	58	15.7	30.5	2.9516	5.5510
45 to 64 "	81,633	13.2	63,758	11.3	161,900	14.9	140,477	14.0	91	142	56.2	101.1	7.4184	11.4243
65 years and over	18,031	2.9	14,479	2.6	50,031	4.6	42,226	4.2	96	81	191.9	191.8	5.5651	4.9868
Unknown age.*	7	.....	5	.....	3,083	0.3	1,344	0.1	1	1	.....	.....	.....	.....
Mortality index for deaths from cancer in 1890 based on age distribution of population in 1870													17.1531	23.6677

* Population and deaths at unknown ages excluded.

In considering the age periods employed in this discussion, it should be remembered that quite a large number of years is included in each, and that there may be some internal variations in the periods themselves that would require attention. This is especially true of the period 65 years and over, in which an alteration of a few years in the average ages of the persons composing it would very considerably affect the rate of mortality. It may be necessary to employ more numerous age periods, or at any rate to check the validity of those employed by considering such variations in the average ages.

Among the arguments that have been used to explain the apparent increase of cancer, without admitting that there has been as large an increase in the mortality as would appear on the face of the statistics, is the supposition that various forms of cancer are more fully reported by physicians at the present time than formerly. It would seem that for the period of twenty-five years included in the Michigan statistics, upon which this paper is chiefly based, that there could not have been a very radical change in the accuracy of the returns in this respect, especially as the data are filtered from the physicians through the families and then from the families through the supervisors, so that only the most striking facts would probably be reported. Where statistics are based directly upon the certificates of physicians, it seems reasonable to suppose that changes in medical opinions would more rapidly affect the compilation of the data than when they pass through several hands. In this whole discussion of cancer, it may be remarked that the term is used in what would be called the general sense to include all classes of malignant diseases due to new growths. As Henry Morris defines it in a recent discussion before the section of surgery of the British Medical Association, "the term 'cancer' is used in the general sense to include all forms of malignant new growths, and therefore embraces rodent ulcer, sarcoma, and lympho-sarcoma, as well as epithelioma and the other varieties of carcinoma." This is fully as great a degree of refinement as is warranted by the condition of returns for the compilation of mortality statistics. Objection has been made by some to the International Classification from the fact that it does not separately tabulate carcinoma and sarcoma, but it would be useless and misleading to attempt to introduce distinctions which only very few of the returns attempt to make. The quality of the statistics generally may be inferred from examination of Exhibit F, which shows the proportional deaths from each form of cancer as classified by the Revised International Classification for each of the quinquennial periods from 1872 to 1896 under the old law, and for the three years, 1898 to 1900 under the new law. We observe that the relative number of deaths of each sex from the various forms of cancer shows little variation during the twenty-five years, with the exception of cancer of the breast in females, which shows a considerable decrease. The proportion of deaths from cancer of other or unspecified organs is in the neighborhood of 50 per cent of the whole number returned for both sexes, running somewhat higher for females. This proportion is in marked contrast to the per cents under the new law, which were only about one-half as great, and less for females than for males. Even as it is, however, the fact that over one-quarter of all of the deaths from cancer returned by physicians in Michigan do not specify the organs affected is a serious discredit to the accuracy and capability of the physicians who make these returns.

EXHIBIT F.—Per cent of deaths from cancer in Michigan by sex and organ or parts of body affected for periods of years, 1872-1900.

Classification number.	Organ or part of body affected. (International Classification, Revision of Paris, 1900.)	Sex.	Twenty-five years, 1872-96.	Five-year periods, 1872-96.					Three years, 1898 to 1900 (new law).
				1872 to 1876.	1877 to 1881.	1882 to 1886.	1887 to 1891.	1892 to 1896.	
	TOTAL DEATHS FROM CANCER	Males....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		Females.	100.0	100.0	100.0	100.0	100.0	100.0	100.0
39	Cancer of mouth.....	Males....	2.5	5.6	2.6	2.2	1.4	2.5	4.2
		Females.	0.8	1.7	0.9	1.0	0.8	0.6	1.4
40	Cancer of stomach and liver	Males....	37.7	38.7	38.4	36.1	38.5	37.5	49.1
		Females.	20.8	18.3	17.6	17.3	23.4	22.6	29.2
41	Cancer of intestines.....	Males....	2.5	1.7	2.4	2.3	2.2	3.0	9.2
		Females.	2.5	2.1	3.1	3.0	1.6	2.9	7.4
42	Cancer of genital organs*...	Males....	0.1	.....	.....	.....	0.3	0.1	.....
		Females.	7.1	6.2	8.5	7.1	5.2	8.3	21.4
43	Cancer of breast.....	Males....	0.4	1.0	0.3	0.8	0.5	0.1	0.2
		Females.	8.7	15.9	12.3	7.5	8.1	6.5	12.7
44	Cancer of skin.....	Males....	4.7	6.1	5.2	4.7	5.2	3.7	9.2
		Females.	1.2	0.2	1.1	1.5	1.2	0.9	2.5
45	*Cancer of other or unspecified organs*.....	*Males*....	*52.1*	*46.8*	*51.0*	*53.9*	*51.9*	*53.2*	28.0
		Females..	*58.8*	*53.9*	*56.6*	*62.7*	*59.6*	*58.3*	25.4
	(a) External.....	Males....	4.8	5.6	5.4	5.1	4.8	4.1	.....
		Females.	2.1	4.2	2.3	2.3	2.3	1.0	.....
	(b) Internal.....	Males....	1.3	0.5	1.0	1.3	1.7	1.5	.....
		Females.	0.7	0.8	0.5	0.5	1.0	0.6	.....
	(c) Unspecified.....	Males....	46.0	40.7	44.6	47.5	45.5	47.6	.....
		Females.	56.0	49.0	53.8	59.3	56.4	56.8	.....

* Including the few deaths from cancer of the *male* genital organs that the International Classification places under (45).

MORTALITY FROM CANCER IN MICHIGAN.*

BY CRESSY L. WILBUR, M. D., CHIEF OF DIVISION OF VITAL STATISTICS, DEPARTMENT OF STATE, LANSING.

I was considerably alarmed when I first saw the program for this morning's session and observed that a post-mortem was to be immediately held on my paper,—not that I have any objections to post-mortems in themselves—they are just as important in vital statistics as in pathology—but you will readily see that one may feel at first a slight degree of reluctance in personally providing the corpse, and I knew in a moment, when I saw that the junior professor of pathology was to hold the scalpel, that even the very title of my paper would constitute some degree of offense to a modern pathologist—"The Mortality from Cancer in Michigan;" why not the mortality from "carcinoma," "sarcoma," or some exact expression, instead of the very indefinite term "cancer"?

Well, I can only say that in writing a paper on the mortality from cancer without attempting to distinguish the component elements of this somewhat indefinite term, that I am limited by the necessary restrictions and imperfections of vital statistics as applied to the practical compilation of causes of death received in a registration office. The pathologist is at liberty to apply the very latest scientific distinctions to his cases. He may divide and subdivide deaths from neoplasms so that not only

* From Proceedings and Addresses of the Sixth General Conference of the Health Officials in Michigan, Ann Arbor, January 15-16, 1903.

the exact organs and parts of the body affected are definitely stated, but also the essential character of the new growths in the strictest pathological sense may be indicated. If all deaths from new growths were reported by competent pathologists, then there would be no reason why these distinctions should not be fully carried out in vital statistics, but, on the contrary, the statements in regard to causes of death are reported by physicians, many of whom have been for years out of college, some of whom have not kept up to the latest advances of pathological knowledge, and a not inconsiderable portion of whom, I regret to say, have little knowledge of pathology and never had. Although we now have a law for the registration of physicians in this State, there are still some loopholes in it, and, even at its best, it must be remembered that the bars were absolutely down until a very short time past. As a consequence, the returns of deaths from cancer, including all forms of malignant neoplasms, are very unsatisfactory from the point of view of exact pathological knowledge.

Going back a few years to the period before the operation of the present registration law under which physicians are now required to report causes of death, we come to an even more unsatisfactory condition of affairs. From 1867 until 1897 the registration law in this State merely required that supervisors should go about in the spring at the time of making their annual assessments and inquire of the families with whom they came into contact whether any deaths had occurred during the preceding calendar year. From the families they obtained such statements as they could in regard to the cause of death, so that the original process of information was substantially as follows: The attending physician diagnosed the case and gave more or less information to the family in regard to its nature. After waiting a considerable period after the death of the individual, varying from three to fifteen months, the family of the decedent gave as correct an account of the cause of death, based more or less remotely on the physician's statement, as they could to the supervisor, and the supervisor, who was, of course, entirely ignorant of medical terms, copied this statement and turned it over to the county clerk, who was likewise presumably ignorant of such matters. The result was finally sent to the State Department for compilation, the medical statements being based on hearsay testimony, and having been distorted more or less by being copied several times by persons unfamiliar with medical terms. The question arises, are such reports of any value whatever, and can any dependence be placed on them for any accurate information in regard to the prevalence of disease?

In spite of the very unsatisfactory methods used for the compilation of mortality statistics—and I may say that the same unsatisfactory methods still persist in this State for the collection of births—I am inclined to think that we may use the information collected in this way to a limited extent, provided we use it very guardedly, and with a thorough knowledge of its inherent defects. The method of collection by enumeration after the close of the year and by unqualified persons is the method pursued by the last United States census in non-registration states, and the vital statistics collected in this way under the Michigan State law are the only statistics that we have covering the last third of the last century. We may, perhaps, assume in using these statistics that if the amount of imperfections was relatively constant, then the results, although imperfect, may safely be taken for internal comparisons,

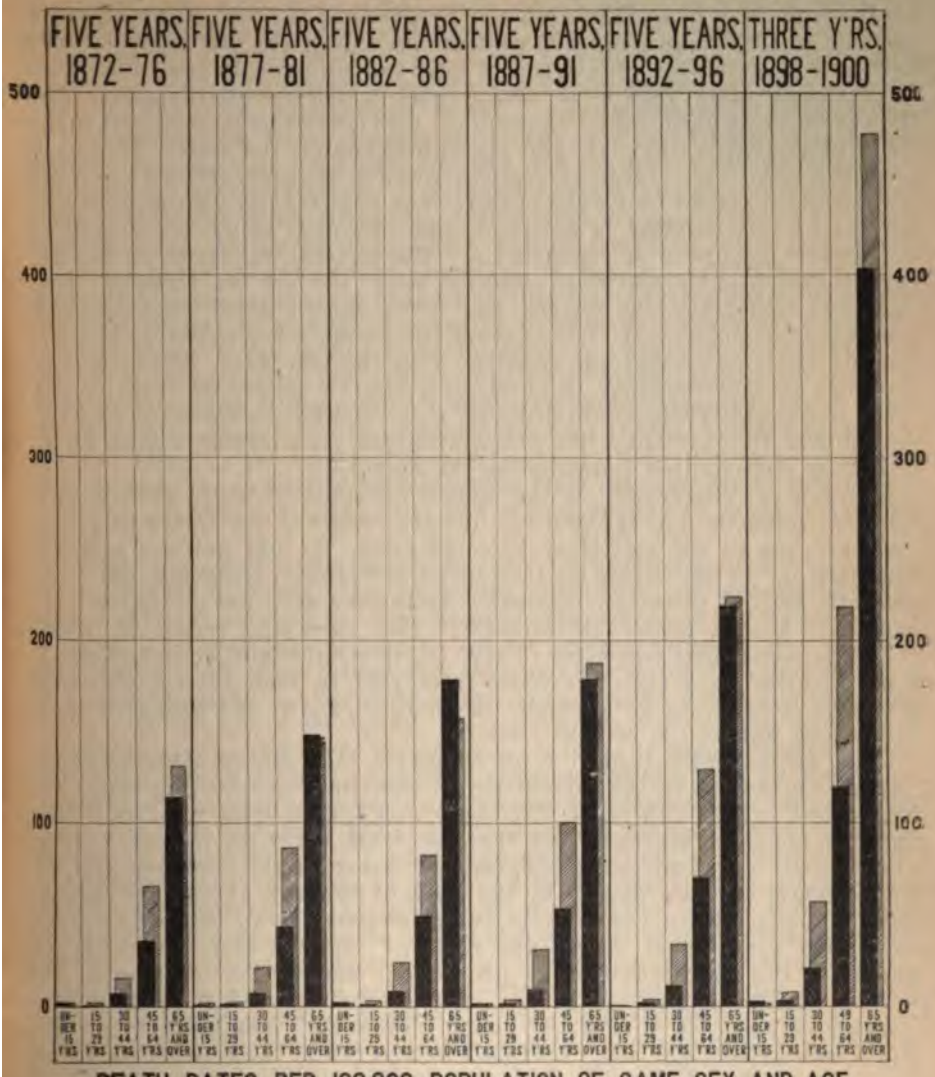
although the rates based on such grossly inaccurate returns cannot, of course, be compared with fairly reliable death rates in other localities. When we have considered the great imperfections belonging to the methods of collection of data, then it is at once apparent that an attempt to make the definite pathological distinctions, such as deaths from "carcinoma," "sarcoma," etc., would be utterly absurd. We are fortunate if we can get an approximate idea of the general variations of total deaths from all forms of malignant neoplasms.

The condensed results of an analysis of the returns of deaths from cancer in Michigan for some thirty years past are graphically shown in the diagram [Plate 1141] kindly prepared by Mr. H. B. Turner of the office of the State Board of Health from statistics collected by the Department of State. As a preliminary step in the preparation of these statistics, the deaths from cancer and tumor stated separately were abstracted from all of the Michigan registration reports beginning with that ending April 5, 1868, and closing with the statistics for 1897, the last year under the old law. These primary figures were printed as an appendix to the Thirty-first Registration Report of Michigan for the year 1897. Examining the figures given, it appears that there was a change made in the method of compilation beginning with the year 1872. Prior to that time, the ages of decedents were stated in decennial periods only. From 1872 to 1897 the ages were given for each five-year period of age. In the estimates of population used in the Michigan reports, the following convenient divisions were employed: Under 15 years; 15-29 years, inclusive; 30-44 years; 45-64 years, and 65 years and over. It thus appears that without considerable inconvenience comparison of age periods could be made only for the years beginning with 1872. It also appears that the age periods thus chosen are substantially the same as those employed by the United States Census in the discussion of cancer, and as will appear by consideration of the diagram and the figures upon which it is based, these periods are well fitted to show the salient facts in regard to the increase of the disease.

We observe that for the period under fifteen years of age the rates both for males and females are so low as to be quite insignificant. Possibly some of the deaths returned and compiled for this period from "cancer" are in reality those of infants dying from "canker" or "cancrum oris," the terms being confused by unqualified reporters. At any rate, the number of deaths and death rates at this period are altogether insignificant. The same is practically true of the following period, including the ages 15-29 years, inclusive, although we may note a slight excess of the death rates of females at these ages.

In the November issue of the *Michigan Monthly Bulletin of Vital Statistics,* in which some of the statistics relating to the increase of cancer have been presented in condensed form, the per cents of increase of the death rates of each sex from cancer may be compared from one quinquennial period to another. These per cents are irregular and sometimes show decreases for the age periods under thirty years. When, however, we come to the age periods from thirty years upwards, we observe that the rates are higher, and that their character as showing a more or less uniform tendency is more definitely pronounced. In these periods, the general rule is that the death rates of females are higher than those of males. The only exceptions are the death rates of females over sixty-five years of age in both of the quinquennial periods of 1877-81 and 1882-86.

CANCER IN MICHIGAN, 1872-1900.



DEATH RATES PER 100,000 POPULATION OF SAME SEX AND AGE.

MALES ■ (PLATE 141) FEMALES ▒

NOTE.—The statistics for the three years 1898-1900 are the results under the law requiring the immediate registration of deaths (in effect August 29, 1897), and hence cannot be compared directly with the quinquennial periods without making allowance for the increased accuracy of registration.

In general, a fairly uniform amount of increase is shown from one quinquennial period to another for each age period and sex. The only exceptional cases showing a decrease in the rates from one period to another are those of females aged 45-64 years in 1882-86, and of males over 65 years in 1887-91 as compared with the preceding five-year periods. You will note that in this comparison I have not referred to the rates given for the three years, 1898-1900. These rates, which are distinguished from the others by the heading of the column (red),* are those collected under the present registration law and are approximately accurate. It will be seen at a glance how large an increase there is as compared with the last quinquennial period under the old law, but it is evident that a large proportion of this increase is fictitious, the difference being due simply to the greater accuracy of registration. The general relations of the age periods shown in the statistics collected under the new law resemble those indicated under the old system, and if we should apply some uniform percentage of increase to the old statistics so that they might be brought up to a basis of comparable equality with the new data, it would seem that the general tendency of increase would be confirmed; that is, the three years, 1898-1900, would probably show a slight increase for each age period over the preceding five years, although the increase would not be nearly as large as that indicated on the diagram.

The general conformity of the figures collected by these two entirely different methods and the general upward tendency for each age period and each sex in the statistics collected under the old law are strongly confirmatory of the belief in their general validity, although the exact amounts are not directly comparable with more accurate statistics. We may say, with considerable certainty, that each age period at which cancer is sufficiently prevalent to give fairly reliable statistics has shown a marked and progressive increase from year to year during the entire period of registration in Michigan under the old law, and this increase is continuing during the present time.

Here we may note that it is necessary to take into consideration the natural variations in the population of the State as affecting the death rates from cancer and other diseases which bear a close relation to the age distribution. We have seen that the death rates for the age periods under thirty years are quite insignificant, hence, if the population of the State should increase largely by the birth of children or by the immigration of young adults, there would be no tendency to an increasing death rate from cancer, but rather the reverse. On the other hand, if the people of the State continue to grow older and in the increase in age of the present population is not compensated by the increase in the number of children, if also the young adults who immigrated into this State some years ago have increased in age, while the amount of recent immigration has fallen off, then we should have a relative increase of persons in the population at the older age periods, with a consequent greater liability to deaths from cancer. In fact, the operation of sanitary measures, whereby the number of deaths of infants and children from acute infectious diseases is diminished, and, later, the number of deaths of young and middle aged adults from tuberculosis is also checked, would have a tendency in itself to increase the mortality from cancer, since it is chiefly from the survivors at the older ages that this mortality

* In the original diagram.

is recruited. It thus appears that an increase in the deaths from cancer may possibly be a sign of a favorable sanitary condition in the community, although it would be very desirable, of course, if the prevalence of this disease could be checked in the same manner as other admittedly infectious diseases have been restrained.

The general indications relative to the increase of the mortality from cancer in Michigan for each sex and age period, as derived from the study of the State registration returns, are confirmed by comparisons of the death rates from this disease at the last two United States censuses. Here we may note that in 1900, for the first time, Michigan appears in the census volumes as a registration State, and I desire especially to call the attention of the health officers present to the fact that very valuable statistical information can be found in these census volumes, not only in regard to the prevalence of cancer, but also in regard to the mortality from all other diseases in this State during the census year. For each important disease a special map is given showing the distribution of the mortality in this State by counties. Through the kindness of Mr. W. A. King, Chief Statistician for Vital Statistics of the Census, I have some copies of the map showing the distribution of deaths from "cancer and tumor." As in previous censuses it was "impossible to distinguish them as they are commonly reported," that is to say, it is well known that many of the deaths reported from "tumor" are in reality due to cancer, so that for many purposes it is desirable to combine the two terms.

In the maps you will observe that the highest rates of mortality are in the Southern counties of the State. This does not necessarily indicate that these counties are less favorable than those of the Upper Peninsula and of the Northern section of the Lower Peninsula in regard to this disease, but simply that the age distribution of the population is more conducive to a high death rate from cancer in the southern and oldest settled part of the State. It is probable that the few counties in the upper part of the State that show an unusually high death rate from cancer may do so from the fact that very few deaths from all causes are reported and that consequently the volume of returns was probably not large enough to give entirely satisfactory results for a single year. I hope that the health officers will get in the habit of making frequent use of these statistics of Michigan as presented by the census office, and am very glad to say that under the permanent organization of the census office, we shall have annual reports of the statistics of Michigan for each disease in connection with those of all the other registration States.

As Michigan was not a registration State in 1890, the mortality from cancer in the two census years 1890 and 1900 cannot be directly compared, so that we can only note the general tendency of the increase of cancer in the registration area.

The age periods chosen by the census for the study of cancer are five, namely, under 5 years; 5-14 years; 15-44 years; 45-64 years and 65 years and over, thus closely agreeing with the age periods represented in the diagram for Michigan.

For these ages, excluding the rates under fifteen years of age, which are too low to be of any special significance, a marked increase was shown from 1890 to 1900 for the total registration area, for all cities, for the registration states as a whole, the cities included in them, and rural

population and for cities not in the registration states, so that without exception in every class of population covered by the exact registration of deaths, a marked increase of mortality from cancer and tumor occurred from 1890 to 1900.

The average age of decedents from cancer and tumor in 1900 was 57.2 years as compared with 56.1 years in 1890. From cancer alone the percentage of deaths to all known causes was 29.5 in 1900 as compared with 22.5 in 1890. The death rate for the registration area for cancer alone rose from 47.9 per 100,000 population in 1890 to 60.0 in 1900. In England and Wales the corresponding death rates were 67.6 and 82.9 respectively.

While there can be no doubt as to the marked increase in reported cancer not only in Michigan but also in the United States as a whole, and many other countries, there has been considerable questioning and uncertainty as to whether this increase might not be more apparent than real. I have referred to the increase that naturally attends the preponderance of older ages in the population. It is difficult to make an exact allowance for this factor, but comparing two individual years, 1870 and 1890, with an interval of twenty years between them, and employing a method similar to that of computing the mortality index, I showed in the *Bulletin of Vital Statistics*, for November, 1902, that if the population of Michigan in 1890 had approximately the same distribution as that in 1870, then the death rates from cancer per 100,000 population in 1890 instead of being for males 21.5 per 100,000 population and for females 29.7 per 100,000 population, would have been about 17.2 and 23.7, respectively. That is to say, the less favorable distribution of the population in Michigan by ages after a lapse of twenty years would account for an increase of about twenty-five per cent for each sex in the total mortality from cancer. As the mortality from cancer increased from 1872-76 to 1892-96, a twenty year interval, 113.8 per cent for males and 122.4 per cent for females, it appears that there is a very large difference, amounting to perhaps 80 or 90 per cent, that cannot be accounted for on the ground of less favorable age distribution.

Another consideration that has led some to believe that cancer has not increased to the extent that the figures would at first view indicate, is that there may have been a change in the accuracy with which this disease is reported as a cause of death by physicians. This probability is strongly suggested by the fact that in some places, while the total deaths from cancer have increased, and also deaths from cancers in inaccessible parts of the body, as in the stomach and liver, the death rates of accessible cancers, as of the breast, tongue, uterus, etc., have not increased, but have even actually diminished.

A table was given in the November *Bulletin* showing the per cents of cancer of the various organs as returned under the old registration law, and also the corresponding results of the first three years under the new law. The most marked change in the proportional deaths during the twenty-five year period under the old law is the diminution in the percentage of deaths from cancer of the breast in females. Only about one-half of the total number of deaths from cancer have the organ or part of the body affected assigned, a condition in which the present law shows a very marked improvement, only about one-fourth of the total number of deaths being thus carelessly returned. But this proportion is far too high, and I may, perhaps, properly call the attention of the health officers at this

point to the necessity of seeing that returns of deaths from cancer state the organ of the body affected in all cases. It is desirable also that the organ primarily affected should be known. Very possibly the diminution in the proportion of deaths from cancer of the breast may arise from the fact that such cases are more frequently operated upon than formerly, so that death may result, not from cancer in its primary seat, but from secondary infection.

The United States census statistics for the registration area show that the mortality from cancer of the breast in females was practically stationary from 1890 to 1900 for the very important age period 45-64 years, although it rose from 47.3 per 100,000 population to 59.6 per 100,000 population for decedents aged 65 years and over.

Cancer of the liver and cancer of the stomach show greater amounts of increase for both sexes from 1890 to 1900 and cancer of the uterus also shows a considerable increase for the age period sixty-five years and over. For the period forty-five to sixty-four years the amount of increase was rather less than the average, rising from 54.0 to 59.1 per 100,000 population.

Besides the variations in the mortality from cancer of various organs as tending to show more or less improvement in the accuracy of returns, there are other indefinite causes whose fluctuations must be taken into consideration in making a complete analysis of the subject. Thus, if the mortality from cancer of the stomach shows a marked increase while the mortality from indefinite diseases of the stomach or digestive system diminishes, there is room for a presumption that deaths from some of these indefinite causes have been more accurately reported in recent years. It is for this reason and because all of the possible complications have not yet been studied that I hesitate to emphasize as much as I might otherwise do, the apparent marked increase in the mortality from this disease. It is probable that there has been an increase. I think from an examination of the statistics of Michigan and comparisons with those of the registration area and with other countries that there has been a large increase, but until further studies have been undertaken in this connection, I should hesitate to say that the mortality from cancer had actually doubled during the past twenty years, as the figures would apparently indicate, or that it has actually increased in approximately as large a proportion.

Vital statistics relating to cancer are among the most difficult that we have to deal with, and in concluding this paper, which must be regarded as a mere preliminary statement of statistical results, but which I hope may be of some interest, and at least suggestive value, I desire to urge as strongly as possible that greater care and precision be used by physicians, as far as possible, in returning deaths from all forms of neoplasms. If possible, the proper scientific term should be used, as "carcinoma," "sarcoma," etc., and in connection with the form of the cancer, its primary seat, when known, and also the parts of the body secondarily affected should be given.

In the system of nomenclature recently prepared by Dr. Tatham for the use of the English Registrar-General, deaths from cancer are stated under three titles: (1) "Carcinoma;" (2) "Sarcoma;" (3) "*Cancer, Malignant Disease* (not otherwise defined)." Probably in this State and also in many others, the majority of returns would go under the third title, so that deaths included under "carcinoma," and especially "sarcoma," would

be too few to give reliable results. Nevertheless, this distinction is important and by insisting upon it in certificates of death some progress might be made.

It is, perhaps, of more importance, and this point seems to have been omitted by the Registrar-General's classification, to state the location of the malignant neoplasms. While we cannot be sure of the exact nature of the new growth in many cases reported, it is important to know what organs or parts of the body are affected.

As Dr. Guilfoy, Registrar of New York City, said in a recent paper before the New York State Conference of Health Officers at Albany:

"Within the past few years the question has arisen as to the increase of cancer since 1880, and the statisticians have debated among themselves as to whether this increase was a real one or a statistical one; the gross figures show an immense increase, in some cities the figures being trebled; naturally the cause was sought for; the influence of medical and surgical progress would seem to account partly for the increase, especially the operation of laparotomy; another cause was probably due to more careful certification as to the cause of death; the question then revolves around the seat of the cancer. Was the cancer in the accessible parts, or vice versa? Some few of the cities and states of continental Europe were in a position to furnish death rates of cancers of the face, tongue, mouth, breast and uterus, on the one hand, and of the liver, stomach, kidney and bladder on the other hand; the death rates of the accessible cancers had not increased; some had diminished; the rates of the inaccessible ones had all increased. The figures produced served to throw considerable light upon the question. The Bertillon classification specifies the seat of all cancers. I simply mention this as an argument in favor of this system."

I sincerely hope that in a few years we may have statistics of a more satisfactory character, and which will afford a sufficient basis for more definite statements in regard to the increase from cancer. This can certainly be brought about if the physicians and the organized health associations of the State take especial interest in the accuracy of returns of deaths made from this cause.

In many cases the State Department has corresponded directly with physicians who reported deaths from cancer, and, as a rule, more definite and satisfactory information has been obtained, so that it is usually within the power of the reporting physician to make a fairly definite and accurate statement. If the local registrars and health officers acting as registrars can be educated to insist upon such reports, the results will be of greatly increased statistical and medical value.

Table 29.—Distribution of deaths from cancer in Michigan by part or organ affected, according to returns under old law (1872-96) and on basis of physicians' certificates under new law (1898-1902), by five-year periods and with average for twenty-five year period under old law.

Classification No.	Organ affected.	Sex.	Twenty-five years, 1872-96.		Five years, 1872-76.		Five years, 1877-81.		Five years, 1882-86.		Five years, 1887-91.		Five years, 1892-96.		Five years, 1898-1902. (New law.)	
			Average deaths.	Per cent.	Average deaths.	Per cent.	Average deaths.	Per cent.	Average deaths.	Per cent.	Average deaths.	Per cent.	Average deaths.	Per cent.	Average deaths.	Per cent.
	CANCER, ALL FORMS—TOTAL DEATHS	Total	403.40	100.0	187.4	100.0	280.2	100.0	367.8	100.0	498.4	100.0	683.2	100.0	1416.4	100.0
		Males	171.48	100.0	81.6	100.0	117.6	100.0	165.2	100.0	205.8	100.0	287.2	100.0	594.6	100.0
		Females	231.92	100.0	105.8	100.0	162.6	100.0	202.6	100.0	292.6	100.0	396.0	100.0	821.8	100.0
39	Cancer of mouth	Total	6.20	1.5	6.4	3.4	4.4	1.6	5.6	1.5	5.2	1.0	9.4	1.4	38.6	2.7
		Males	4.24	2.5	4.6	5.6	3.0	2.6	3.6	2.2	2.8	1.4	7.2	2.5	29.0	2.0
		Females	1.96	0.8	1.8	1.7	1.4	0.9	2.0	1.0	2.4	0.8	2.2	0.6	9.6	0.7
40	Cancer of stomach and liver	Total	112.84	28.0	51.0	27.2	73.8	26.2	94.6	25.7	147.8	29.7	197.0	28.8	556.4	39.2
		Males	64.64	37.7	31.6	38.7	45.2	38.4	59.6	36.1	79.2	38.5	107.6	37.5	303.4	21.4
		Females	48.20	20.8	19.4	18.3	28.6	17.6	35.0	17.3	68.6	23.4	89.4	22.6	253.0	17.9
41	Cancer of intestines	Total	10.12	2.5	3.6	1.9	7.8	2.8	9.8	2.7	9.4	1.9	20.0	2.9	120.6	8.5
		Males	4.24	2.5	1.4	1.7	2.8	2.4	3.8	2.3	4.6	2.2	8.6	3.0	57.0	4.0
		Females	5.88	2.5	2.2	2.1	5.0	3.1	6.0	3.0	4.8	1.6	11.4	2.9	63.6	4.5
42	Cancer of genital organs	Total	16.72	4.1	6.6	3.5	13.8	4.9	14.4	3.9	15.8	3.2	33.0	4.8	193.4	13.7
		Males	0.16	0.1	.....	.....	.....	.....	.....	.....	0.6	0.3	0.2	0.1	1.0	0.1
		Females	16.56	7.1	6.6	6.2	13.8	8.5	14.4	7.1	15.2	5.2	32.8	8.3	192.4	13.6
43	Cancer of breast	Total	21.00	5.2	17.6	9.4	20.4	7.3	16.6	4.5	24.6	4.9	25.8	3.8	118.0	8.3
		Males	0.76	0.4	0.8	1.0	0.4	0.3	1.4	0.8	1.0	0.5	0.2	0.1	2.0	0.1
		Females	20.24	8.7	16.8	15.9	20.0	12.3	15.2	7.5	23.6	8.1	25.6	6.5	116.0	8.2
44	Cancer of skin	Total	10.88	2.7	7.0	3.7	8.0	2.9	10.8	2.9	14.4	2.9	14.2	2.1	72.4	5.1
		Males	8.08	4.7	5.0	6.1	6.2	5.3	7.8	4.7	10.8	5.2	10.6	3.7	52.4	3.7
		Females	2.80	1.2	2.0	0.2	1.8	1.1	3.0	1.5	3.6	1.2	3.6	0.9	20.0	1.4
45	*Cancer of other organs or unspecified organs*	Total	*225.64*	*55.9*	*95.2*	*50.8*	*152.0*	*54.2*	*216.0*	*58.7*	*281.2*	*56.4*	*383.8*	*56.2*	317.0	22.4
		Males	*89.36*	*52.1*	*38.2*	*46.8*	*60.0*	*51.0*	*89.0*	*53.9*	*106.8*	*51.9*	*152.8*	*53.2*	149.8	10.6
		Females	*136.28*	*58.8*	*57.0*	*53.9*	*92.0*	*56.6*	*127.0*	*62.7*	*174.4*	*59.6*	*231.0*	*58.3*	167.2	11.8
	(a) External	Total	13.08	3.2	9.0	4.8	10.2	3.6	14.2	3.9	16.4	3.3	15.6	2.3	.....	.....
		Males	8.20	4.8	4.6	5.6	6.4	5.4	8.4	5.1	9.8	4.8	11.8	4.1	.....	.....
		Females	4.88	2.1	4.4	4.2	3.8	2.3	5.8	2.9	6.6	2.3	3.8	1.0	.....	.....
	(b) Internal	Total	3.84	1.0	1.2	0.6	2.0	0.7	3.2	0.9	6.2	1.2	6.6	1.0	.....	.....
		Males	2.28	1.3	0.4	0.5	1.2	1.0	2.2	1.3	3.4	1.7	4.2	1.5	.....	.....
		Females	1.56	0.7	0.8	0.8	0.8	0.5	1.0	0.5	2.8	1.0	2.4	0.6	.....	.....
	(c) Unspecified	Total	208.72	51.7	85.0	45.4	139.8	49.9	198.6	54.0	258.6	51.9	361.6	52.9	.....	.....
		Males	78.88	46.0	33.2	40.7	52.4	44.6	78.4	47.5	93.6	45.5	136.8	47.6	.....	.....
		Females	129.84	56.0	51.8	49.0	87.4	53.8	120.2	59.3	165.0	56.4	224.8	56.8	.....	.....

Table 30.—Deaths and death rates per 100,000 population of same age and sex from physicians' certificates under new law (1898-1902), with five-year

Years.	Sex.	All ages.					Under 15 years.					15 to 29 years.				
		Population.	Cancer.		*Tumor.*		Population.	Cancer.		*Tumor.*		Population.	Cancer.		*Tumor.*	
			Deaths.	Death rates.	*Deaths.*	*Death rates.*		Deaths.	Death rates.	*Deaths.*	*Death rates.*		Deaths.	Death rates.	*Deaths.*	*Death rates.*
1870	Total	**1,184,059**	120	10.1	*23*	*1.9*	**450,791**	....	....	....	....	**336,226**	....	....	....	....
	Males	**617,745**	47	7.6	*6*	*1.0*	**228,986**	....	....	....	....	**173,227**	....	....	....	....
	Females	**566,314**	73	12.9	*17*	*3.0*	**221,805**	....	....	....	....	**162,999**	....	....	....	....
1871	Total	1,221,552	105	8.6	32	*2.6*	463,573	....	....	....	....	349,880	....	....	....	....
	Males	637,605	48	7.5	*11*	*1.7*	235,514	....	....	....	....	181,004	....	....	....	....
	Females	583,947	57	9.8	*21*	*3.6*	228,059	....	....	....	....	168,876	....	....	....	....
1872	Total	1,259,045	133	10.5	*31*	*2.5*	476,355	15	3.1	*4*	*0.8*	363,536	8	2.2	*3*	*0.8*
	Males	657,465	58	8.8	*7*	*1.1*	242,042	9	3.7	*1*	*0.4*	188,722	4	2.1	*1*	*0.5*
	Females	601,581	75	12.5	*24*	*4.0*	234,313	6	2.6	*3*	*1.3*	174,754	4	2.3	*2*	*1.1*
1873	Total	1,296,538	172	13.3	*48*	*3.7*	489,137	8	1.6	*14*	*2.9*	377,190	7	1.9	*8*	*2.1*
	Males	677,324	75	11.1	*18*	*2.7*	248,570	4	1.6	*8*	*3.2*	196,559	....	....	*1*	*0.5*
	Females	619,214	97	15.7	*30*	*4.8*	240,567	4	1.7	*6*	*2.5*	180,631	7	3.9	*7*	*3.9*
1874	Total	**1,334,031**	188	14.1	*34*	*2.5*	501,919	7	1.4	*3*	*0.6*	390,846	4	1.0	*7*	*1.8*
	Males	**697,194**	84	12.9	*14*	*2.0*	255,098	6	2.4	*3*	*1.2*	204,337	1	0.5	*1*	*0.5*
	Females	**636,847**	104	16.3	*20*	*3.1*	246,821	1	0.4	....	....	186,509	3	1.6	*6*	*3.2*
1875	Total	1,384,515	203	14.7	*55*	*4.0*	514,701	15	2.9	*7*	*1.4*	404,500	7	1.7	*7*	*1.7*
	Males	724,713	73	10.1	*13*	*1.8*	261,626	3	1.1	*1*	*0.4*	212,114	3	1.4	*1*	*0.5*
	Females	659,803	130	19.7	*42*	*6.4*	253,075	12	4.7	*6*	*2.4*	192,386	4	2.1	*6*	*3.1*
1876	Total	1,435,000	241	16.8	*41*	*2.9*	527,481	18	3.4	*9*	*1.7*	418,154	10	2.4	*5*	*1.2*
	Males	752,241	118	15.7	*12*	*1.6*	268,153	13	4.8	*5*	*1.9*	219,891	4	1.8	*1*	*0.5*
	Females	682,759	123	18.0	*29*	*4.2*	259,328	5	1.9	*4*	*1.5*	198,263	6	3.0	*4*	*2.0*
1877	Total	1,485,484	266	17.9	*45*	*3.0*	540,263	14	2.6	*4*	*0.7*	431,810	11	2.5	*2*	*0.5*
	Males	779,770	125	16.0	*16*	*2.1*	274,681	8	2.9	*1*	*0.4*	227,669	4	1.8	*1*	*0.4*
	Females	705,715	141	20.0	*29*	*4.1*	265,582	6	2.3	*3*	*1.1*	204,141	7	3.4	*1*	*0.5*
1878	Total	1,535,968	269	17.5	*56*	*3.6*	553,045	7	1.3	*12*	*2.2*	445,464	9	2.0	*8*	*1.8*
	Males	807,298	116	14.4	*14*	*1.7*	281,209	4	1.4	*5*	*1.8*	235,446	4	1.7	*1*	*0.4*
	Females	728,670	153	21.0	*42*	*5.8*	271,836	3	1.1	*7*	*2.6*	210,018	5	2.4	*7*	*3.3*
1879	Total	1,586,453	272	17.1	*65*	*4.1*	565,827	13	2.3	*7*	*1.2*	459,120	8	1.7	*9*	*2.0*
	Males	834,827	124	14.9	*23*	*2.8*	287,737	4	1.4	*3*	*1.0*	243,224	6	2.5	*3*	*1.2*
	Females	751,626	148	19.7	*42*	*5.6*	278,090	9	3.2	*4*	*1.4*	215,896	2	0.9	*6*	*2.8*
1880	Total	**1,635,937**	284	17.3	*76*	*4.6*	**578,509**	12	2.1	*5*	*0.9*	**472,774**	11	2.3	*10*	*2.1*
	Males	**862,355**	111	12.9	*29*	*3.4*	**294,265**	4	1.4	*1*	*0.3*	**251,001**	4	1.6	*3*	*1.2*
	Females	**774,582**	173	22.3	*47*	*6.1*	**284,344**	8	2.8	*4*	*1.4*	**221,773**	7	3.2	*7*	*3.2*
1881	Total	1,691,117	310	18.3	*86*	*5.1*	593,912	12	2.0	*2*	*0.3*	488,690	11	2.3	*10*	*2.0*
	Males	890,399	112	12.6	*24*	*2.7*	301,908	4	1.3	....	....	258,813	4	1.5	*3*	*1.2*
	Females	800,718	198	24.7	*62*	*7.7*	*292,004	8	2.7	*2*	*0.7*	229,877	7	3.0	*7*	*3.0*
1882	Total	1,745,298	301	17.2	*68*	*3.9*	609,214	7	1.1	*4*	*0.7*	504,606	9	1.8	*12*	*2.4*
	Males	918,444	139	15.1	*16*	*1.7*	309,551	3	1.0	*1*	*0.3*	266,626	5	1.9	*2*	*0.8*
	Females	826,854	162	19.6	*52*	*6.3*	299,663	4	1.3	*3*	*1.0*	237,980	4	1.7	*10*	*4.2*
1883	Total	1,799,478	383	21.3	*58*	*3.2*	624,516	15	2.4	*8*	*1.3*	520,522	20	3.8	*7*	*1.3*
	Males	946,488	160	16.9	*14*	*1.5*	317,193	6	1.9	*6*	*1.9*	274,438	4	1.5	*1*	*0.4*
	Females	852,990	223	26.1	*44*	*5.2*	307,323	9	2.9	*2*	*0.6*	246,084	16	6.5	*6*	*2.4*
1884	Total	**1,853,658**	361	19.5	*85*	*4.6*	**639,818**	14	2.2	*8*	*1.3*	**536,437**	10	1.9	*12*	2.2
	Males	**974,532**	173	17.8	*26*	*2.7*	**324,836**	12	3.7	*4*	*1.2*	**282,250**	6	2.1	*5*	*1.8*
	Females	**879,126**	188	21.4	*59*	*6.7*	**314,982**	2	0.6	*4*	*1.3*	**254,187**	4	1.6	*7*	*2.8*
1885	Total	1,893,697	403	21.3	*104*	*5.5*	649,029	17	2.6	*9*	*1.4*	544,809	12	2.2	*15*	*2.8*
	Males	994,073	183	18.4	*30*	*3.0*	329,373	9	2.7	*4*	*1.2*	285,471	2	0.7	*4*	*1.4*
	Females	899,623	220	24.5	*74*	*8.2*	319,656	8	2.5	*5*	*1.6*	259,338	10	3.9	*11*	*4.2*
1886	Total	1,933,735	391	20.2	*91*	*4.7*	658,239	13	2.0	*3*	*0.5*	553,181	15	2.7	*10*	*1.8*
	Males	1,013,615	171	16.9	*23*	*2.3*	333,909	7	2.1	*1*	*0.3*	288,692	4	1.4	*2*	*0.7*
	Females	920,120	220	23.9	*68*	*7.4*	324,330	6	1.8	*2*	*0.6*	264,489	11	4.2	*8*	*3.0*

* For footnote see end of table.

cancer and tumor, in Michigan, as enumerated under old law (1870-97) and as registered by averages and average for twenty-five year period under old law.*

30 to 44 years.					45 to 64 years.					65 years and over.					Unknown ages.		
	Cancer.		Tumor.			Cancer.		Tumor.			Cancer.		Tumor.				
Population.	Deaths.	Death rates.	Deaths.	Death rates.	Population.	Deaths.	Death rates.	Deaths.	Death rates.	Population.	Deaths.	Death rates.	Deaths.	Death rates.	Population.	Cancer.	Tumor.
219,126	....	.....	....	.....	**145,391**	....	.....	....	.....	**32,518**	....	.....	....	.....	12	....	....
115,858	....	.....	....	.....	**81,633**	....	.....	....	.....	**18,034**	....	.....	....	.....	7	....	....
103,268	....	.....	....	.....	**63,758**	....	.....	....	.....	**14,479**	....	.....	....	.....	5	....	....
228,365	....	.....	....	.....	152,530	....	.....	....	.....	34,988	....	.....	....	.....	11	....	....
120,962	....	.....	....	.....	85,362	....	.....	....	.....	19,358	....	.....	....	.....	6	....	....
107,403	....	.....	....	.....	67,168	....	.....	....	.....	15,630	....	.....	....	.....	5	....	....
227,604	17	7.2	7	*2.9*	159,669	60	37.6	*15*	*9.4*	37,461	29	77.4	*2*	*5.3*	10	4	....
126,066	4	3.2	....	.....	89,091	22	24.7	*4*	*4.5*	20,681	15	72.5	*1*	*4.8*	6	4	....
111,538	13	11.7	7	*6.3*	70,578	38	53.8	*11*	*15.6*	16,780	14	83.4	*1*	*6.0*	4	....	....
246,843	27	10.9	5	*2.0*	166,808	73	43.8	*12*	*7.2*	39,936	52	130.2	*8*	*20.0*	9	5	*1*
131,169	10	7.6	*1*	*0.8*	92,820	35	37.7	*5*	*5.4*	22,005	25	113.6	*3*	*13.6*	5	1	....
115,674	17	14.7	*4*	*3.5*	73,988	38	51.4	7	*9.5*	17,931	27	150.6	*5*	*27.9*	4	4	*1*
256,082	20	7.8	*8*	*3.1*	173,947	96	55.2	*9*	*5.2*	42,410	60	141.5	7	*16.5*	7	1	....
136,273	8	5.9	*3*	*2.2*	96,549	39	40.4	*2*	*2.1*	23,328	30	128.6	*5*	*21.4*	4	....	....
119,809	12	10.0	*5*	*4.2*	77,398	57	73.6	7	*9.0*	19,082	30	157.2	*2*	*10.5*	3	1	....
255,221	37	13.9	*13*	*4.9*	181,087	86	47.5	*19*	*10.5*	44,885	56	124.8	*9*	*20.1*	7	2	....
141,377	10	7.1	....	.....	100,278	32	31.9	7	*7.0*	24,652	24	97.4	*4*	*16.2*	4	1	....
123,944	27	21.8	*13*	*10.5*	80,809	54	66.8	*12*	*14.8*	20,233	32	158.2	*5*	*24.7*	3	1	....
274,560	38	13.8	*8*	*2.9*	188,226	111	59.0	*13*	*6.9*	47,359	61	128.8	*4*	*8.4*	5	3	2
146,481	15	10.2	*2*	*1.4*	104,007	45	43.3	*4*	*3.8*	25,976	39	150.1	....	.....	3	2	....
128,079	23	18.0	*6*	*4.7*	84,219	66	78.4	*9*	*10.7*	21,383	22	102.9	*4*	*18.7*	2	1	2
283,799	32	11.3	*11*	*3.9*	195,365	118	60.4	*18*	*9.2*	49,833	86	172.6	*10*	*20.1*	4	5	....
151,585	10	6.6	....	.....	107,736	44	40.8	7	*6.5*	27,299	56	205.1	7	*25.6*	2	3	....
132,214	22	16.6	*11*	*8.3*	87,629	74	84.4	*11*	*12.6*	22,534	30	133.1	*3*	*13.3*	2	2	....
293,038	41	14.0	*13*	*4.4*	202,504	128	63.2	*14*	*6.9*	52,308	76	145.3	*9*	*17.2*	2	8	....
156,688	8	5.1	2	*1.3*	111,465	59	52.9	*3*	*2.7*	28,623	37	129.3	*3*	*10.5*	1	4	....
136,350	33	24.2	*11*	*8.1*	91,039	69	75.8	*11*	*12.1*	23,685	39	164.7	*6*	*25.3*	1	4	....
302,277	42	13.9	*16*	*5.3*	209,643	128	61.1	*28*	*13.4*	54,781	78	142.4	*3*	*5.5*	2	3	2
161,792	14	8.7	*3*	*1.9*	115,194	53	46.0	*12*	*10.4*	29,946	45	150.3	*2*	*6.7*	1	2	....
140,485	28	19.9	*13*	*9.3*	94,449	75	79.4	*16*	*16.9*	24,835	33	132.9	*1*	*4.0*	1	1	2
311,516	46	14.8	*13*	*4.2*	**216,782**	135	62.3	*32*	*14.8*	**57,256**	77	134.5	*15*	*26.2*	.....	3	*1*
168,396	12	7.2	*2*	*1.2*	**118,923**	48	40.4	*16*	*13.5*	**31,270**	43	137.5	7	*22.4*	.....	....	....
144,620	34	23.5	*11*	*7.6*	**97,859**	87	88.9	*16*	*16.4*	**25,986**	34	130.8	*8*	*30.8*	.....	3	*1*
323,110	50	15.5	*20*	*6.2*	224,948	152	67.6	*36*	*16.0*	60,042	84	139.9	*17*	*28.3*	365	1	*1*
173,587	15	8.6	*3*	*1.7*	123,021	48	39.0	*10*	*8.1*	32,766	41	125.1	*8*	*24.4*	277	....	....
149,523	35	23.4	*17*	*11.4*	101,927	104	102.0	*26*	*25.5*	27,276	43	157.6	*9*	*33.0*	88	1	*1*
334,705	46	13.7	*16*	*4.8*	233,116	122	52.3	*21*	*9.0*	62,829	109	173.5	*13*	*20.7*	728	8	2
180,279	13	7.2	*3*	*1.7*	127,120	49	38.5	*4*	*3.1*	34,263	66	192.6	*5*	*14.6*	553	3	*1*
154,426	33	21.4	*13*	*8.4*	105,996	73	68.9	*17*	*16.0*	28,566	43	150.5	*8*	*28.0*	175	5	*1*
346,290	55	15.9	7	*2.0*	241,282	182	75.4	*25*	*10.4*	65,614	102	155.5	*11*	*16.8*	1,093	9	....
186,970	10	5.3	....	.....	131,218	76	57.9	*6*	*4.6*	35,759	59	165.0	*1*	*2.8*	830	5	....
159,329	45	28.2	7	*4.4*	110,064	106	96.3	*19*	*17.3*	29,855	43	144.0	*10*	*33.5*	263	4	....
357,883	65	18.2	*21*	*5.9*	**249,448**	146	58.5	*26*	*10.4*	**68,400**	123	179.8	*16*	*23.4*	**1,456**	3	2
193,661	26	13.4	*3*	*1.5*	**135,316**	62	45.8	7	*5.2*	**37,255**	66	177.2	7	*18.8*	**1,106**	1	....
164,232	39	23.7	*18*	*11.0*	**114,132**	84	73.6	*19*	*16.6*	**31,145**	57	183.0	*9*	*28.9*	**350**	2	2
367,091	53	14.4	*18*	*4.9*	258,269	183	70.9	*43*	*16.6*	72,376	130	179.6	*18*	*24.9*	1,952	8	*1*
198,574	20	10.1	*5*	*2.5*	139,747	75	53.7	*10*	*7.2*	39,384	75	190.4	7	*17.8*	1,436	2	....
168,517	33	19.6	*13*	*7.7*	118,522	108	91.1	*33*	*27.8*	32,992	55	166.7	*11*	*33.3*	516	6	*1*
376,298	63	16.7	*22*	*5.8*	267,090	175	65.5	*36*	*13.5*	76,353	119	155.9	*20*	*26.2*	2,446	6	....
203,486	15	7.4	*5*	*2.5*	144,177	72	49.9	*8*	*5.5*	41,514	70	168.6	7	*16.9*	1,765	3	....
172,812	48	27.8	*17*	*9.8*	122,913	103	83.8	*28*	*22.8*	34,839	49	140.6	*13*	*37.3*	681	3	....

Table 30.—Continued.—Deaths and

Years.	Sex.	All ages.					Under 15 years.					15 to 29 years.				
		Population.	Cancer.		Tumor.		Population.	Cancer.		Tumor.		Population.	Cancer.		Tumor.	
			Deaths.	Death rates.	Deaths.	Death rates.		Deaths.	Death rates.	Deaths.	Death rates.		Deaths.	Death rates.	Deaths.	Death rates.
1887	Total	1,973,774	453	23.0	92	4.7	667,450	15	2.2	8	1.2	561,552	15	2.7	6	1.1
	Males	1,033,156	185	17.9	21	2.0	338,446	5	1.5	5	1.5	291,912	5	1.7	1	0.3
	Females	940,618	268	28.5	71	7.5	329,004	10	3.0	3	0.9	269,640	10	3.7	5	1.9
1888	Total	2,013,812	480	23.8	108	5.4	676,660	14	2.1	9	1.3	569,934	19	3.3	16	2.8
	Males	1,052,697	193	18.3	35	3.3	342,982	8	2.3	4	1.2	295,133	4	1.4	3	1.0
	Females	961,115	287	29.9	73	7.6	333,678	6	1.8	5	1.5	274,791	15	5.5	13	4.7
1889	Total	2,053,851	492	24.0	102	5.0	685,871	14	2.0	8	1.2	578,296	28	4.8	6	1.0
	Males	1,072,239	202	18.8	28	2.6	347,519	6	1.7	5	1.4	298,354	14	4.7	1	0.3
	Females	981,612	290	29.5	74	7.5	338,352	8	2.4	3	0.9	279,942	14	5.0	5	1.8
1890	Total	**2,093,889**	533	25.5	123	5.9	**695,081**	14	2.0	17	2.4	**586,668**	14	2.4	11	1.9
	Males	**1,091,780**	235	21.5	33	3.0	**352,055**	7	2.0	5	1.4	**301,575**	5	1.7	3	1.0
	Females	**1,002,109**	298	29.7	90	9.0	**343,026**	7	2.0	12	3.5	**285,093**	9	3.2	8	2.8
1891	Total	2,130,827	534	25.1	157	7.4	706,969	14	2.0	14	2.0	594,157	11	1.9	12	2.0
	Males	1,108,970	214	19.3	38	3.4	358,283	7	2.0	7	2.0	304,156	5	1.6	2	0.7
	Females	1,021,857	320	31.3	119	11.6	348,686	7	2.0	7	2.0	290,001	6	2.1	10	3.4
1892	Total	2,167,765	558	25.7	139	6.4	718,859	7	1.0	13	1.8	601,646	13	2.2	18	3.0
	Males	1,126,160	246	21.8	36	3.2	364,512	5	1.4	4	1.1	306,737	5	1.6	6	2.0
	Females	1,041,605	312	30.0	103	9.9	354,347	2	0.6	9	2.5	294,909	8	2.7	12	4.1
1893	Total	2,204,703	644	29.2	156	7.1	730,747	7	1.0	11	1.5	609,134	22	3.6	13	2.1
	Males	1,143,350	284	24.8	43	3.8	370,740	6	1.6	4	1.1	309,318	8	2.6	5	1.6
	Females	1,061,353	360	33.9	113	10.6	360,007	1	0.3	7	1.9	299,816	14	4.7	8	2.7
1894	Total	**2,241,641**	677	30.2	149	6.6	**742,635**	6	0.8	12	1.6	**616,623**	18	2.9	20	3.2
	Males	**1,160,540**	269	23.2	41	3.5	**376,968**	1	0.3	7	1.9	**311,899**	8	2.6	7	2.2
	Females	**1,081,101**	408	37.7	108	10.0	**365,667**	5	1.4	5	1.4	**304,724**	10	3.3	13	4.3
1895	Total	2,271,531	757	33.3	172	7.6	747,585	10	1.3	13	1.7	622,809	21	3.4	20	3.2
	Males	1,175,268	312	26.5	48	4.1	379,263	3	0.8	9	2.4	314,831	10	3.2	4	1.3
	Females	1,096,264	445	40.6	124	11.3	368,322	7	1.9	4	1.1	307,978	11	3.6	16	5.2
1896	Total	2,301,421	780	33.9	161	7.0	752,535	6	0.8	22	2.9	628,995	27	4.3	19	3.0
	Males	1,189,995	325	27.3	43	3.6	381,557	4	1.0	14	3.7	317,763	8	2.5	2	0.6
	Females	1,111,426	455	40.9	118	10.6	370,978	2	0.5	8	2.2	311,232	19	6.1	17	5.5
1897	Total	2,331,311	760	32.6	135	5.8	757,485	10	1.3	16	2.1	635,180	23	3.6	14	2.2
	Males	1,204,723	333	27.6	49	4.1	383,852	4	1.0	11	2.9	320,696	9	2.8	6	1.9
	Females	1,126,589	427	37.9	86	7.6	373,633	6	1.6	5	1.3	314,485	14	4.5	8	2.5
1898	Total	2,361,201	1,321	55.9	79	3.3	762,434	23	3.0	6	0.8	641,367	35	5.5	9	1.4
	Males	1,219,450	549	45.0	22	1.8	386,146	12	3.1	4	1.0	323,628	12	3.7	4	1.2
	Females	1,141,752	772	67.6	57	5.0	376,288	11	2.9	2	0.5	317,739	23	7.2	5	1.6
1899	Total	2,391,091	1,334	55.8	45	1.9	767,385	11	1.4	3	0.4	647,553	38	5.9	2	0.3
	Males	1,234,178	560	45.4	8	0.6	388,441	7	1.8	2	0.5	326,560	12	3.7	....	....
	Females	1,156,914	774	66.9	37	3.2	378,944	4	1.1	1	0.3	320,993	26	8.1	2	0.6
1900	Total	**2,420,982**	1,460	60.3	46	1.9	**772,334**	21	2.7	1	0.1	**653,739**	36	5.5	4	0.6
	Males	**1,248,905**	599	48.0	15	1.2	**390,735**	15	3.8	1	0.3	**329,492**	11	3.3	2	0.6
	Females	**1,172,077**	861	73.7	31	2.6	**381,599**	6	1.6	....	....	**324,247**	25	7.7	2	0.6
1901	Total	2,450,872	1,484	60.5	40	1.6	777,284	19	2.4	....	....	659,925	35	5.3	1	0.2
	Males	1,263,633	637	50.4	14	1.1	393,030	8	2.0	....	....	332,424	20	6.0	....	....
	Females	1,187,239	847	71.3	26	2.2	384,254	11	2.9	....	....	327,501	15	4.6	1	0.3
1902	Total	2,480,762	1,483	59.8	39	1.6	782,234	10	1.3	1	0.1	666,111	29	4.4	1	0.2
	Males	1,278,360	628	49.1	13	1.0	395,324	8	2.0	1	0.3	335,356	13	3.9	1	0.3
	Females	1,202,402	855	71.1	26	2.2	386,910	2	0.5	....	....	330,755	16	4.8	....	....

death rates from cancer and tumor.

30 to 44 years.					45 to 64 years.					65 years and over.					Unknown ages.		
	Cancer.		Tumor.			Cancer.		Tumor.			Cancer.		Tumor.				
Population.	Deaths.	Death rates.	Deaths.	Death rates.	Population.	Deaths.	Death rates.	Deaths.	Death rates.	Population.	Deaths.	Death rates.	Deaths.	Death rates.	Population.	Cancer.	Tumor.
385,487	59	15.3	26	6.7	275,912	207	75.0	33	12.0	80,328	148	184.2	19	23.7	2,942	9	....
208,399	15	7.2	4	1.9	148,608	78	52.5	6	4.0	43,643	78	178.7	5	11.5	2,095	4	....
177,088	44	24.8	22	12.4	127,304	129	101.3	27	21.2	36,685	70	190.8	14	38.2	847	5	....
394,684	78	19.8	22	5.6	284,734	209	73.4	34	11.9	84,304	156	185.0	26	30.8	3,437	4	1
213,311	19	8.9	5	2.3	153,039	81	52.9	12	7.8	45,772	81	177.0	11	24.0	2,424	....	....
181,373	59	32.5	17	9.4	131,695	128	97.2	22	16.7	38,532	75	194.6	15	38.9	1,013	4	1
403,882	82	20.3	23	5.7	293,555	202	68.8	49	16.7	88,281	163	184.6	16	18.1	3,932	3	....
218,224	16	7.3	5	2.3	157,469	75	47.6	12	7.6	47,902	90	187.9	5	10.4	2,754	1	....
185,658	66	35.5	18	9.7	136,086	127	93.3	37	27.2	40,379	73	180.8	11	27.2	1,178	2	....
413,079	93	22.5	28	6.8	**302,377**	233	77.1	45	14.9	**92,257**	177	191.9	22	23.8	**4,427**	2	....
223,136	35	15.7	5	2.2	**161,900**	91	56.2	12	7.4	**50,031**	96	191.9	8	16.0	**3,088**	1	....
189,943	58	30.5	23	12.1	**140,477**	142	101.1	33	23.5	**42,226**	81	191.8	14	33.2	**1,344**	1	....
421,843	84	19.9	40	9.5	309,783	255	82.3	59	19.0	94,391	159	168.4	28	29.7	3,685	11	4
227,159	20	8.8	5	2.2	165,692	97	58.5	14	8.4	51,130	81	158.4	9	17.6	2,550	4	1
194,684	64	32.9	35	18.0	144,091	158	109.7	45	31.2	43,261	78	180.3	19	43.9	1,135	7	3
430,608	70	16.3	39	9.0	317,187	275	86.7	43	13.6	96,526	189	195.8	23	23.8	2,943	4	3
231,183	24	10.4	9	3.9	169,483	110	64.3	11	6.5	52,230	101	193.4	6	11.5	2,017	1	....
199,425	46	23.1	30	15.0	147,704	165	111.7	32	21.7	44,296	88	198.7	17	38.4	926	3	3
439,372	100	22.8	34	7.7	324,593	275	84.7	64	19.7	98,659	233	236.2	33	33.4	2,199	7	1
235,206	54	14.5	10	4.3	173,275	104	60.0	14	8.1	53,329	129	241.9	10	18.8	1,483	3	....
204,166	66	32.3	24	11.8	151,318	171	113.0	50	33.0	45,330	104	229.4	23	50.7	716	4	1
448,136	115	25.7	39	8.7	**331,997**	323	97.3	48	14.5	**100,793**	208	206.4	30	29.8	**1,457**	7	....
239,229	28	11.7	7	2.9	**177,066**	125	70.6	9	5.1	**54,428**	106	194.8	11	20.2	**950**	1	....
208,907	87	41.6	32	15.3	**154,931**	198	127.8	39	25.2	**46,365**	102	220.0	19	41.0	**507**	6	....
455,314	100	22.0	48	10.5	339,835	379	111.5	59	17.4	104,187	240	230.4	32	30.7	1,802	7	....
242,524	22	9.1	8	3.3	181,335	144	79.4	17	9.4	56,113	131	233.5	10	17.8	1,202	2	....
212,790	78	36.7	40	18.8	158,500	235	148.3	42	26.5	48,074	109	226.7	22	45.8	600	5	....
462,491	108	23.4	34	7.4	347,673	375	107.9	58	16.7	107,582	254	236.1	28	26.0	2,146	10	....
245,818	29	11.8	4	1.6	185,604	144	77.6	11	5.9	57,799	133	230.1	12	20.8	1,454	7	....
216,673	79	36.5	30	13.8	162,069	231	142.5	47	29.0	49,783	121	243.1	16	32.1	692	3	....
469,668	94	20.0	24	5.1	355,509	354	99.6	43	12.1	110,976	269	242.4	36	32.4	2,491	10	2
249,113	31	12.4	9	3.6	189,872	150	79.0	11	5.8	59,484	135	227.0	12	20.2	1,706	4	....
220,555	63	28.6	15	6.8	165,637	204	123.2	32	19.3	51,492	134	260.2	24	46.6	785	6	2
476,845	186	39.0	17	3.6	363,347	593	163.2	27	7.4	114,371	482	421.4	20	17.5	2,837	2	....
252,407	59	23.4	3	1.2	194,141	224	115.4	6	3.1	61,169	241	394.0	5	8.2	1,959	1	....
224,438	127	56.6	14	6.2	169,206	369	218.1	21	12.4	53,202	241	453.0	15	28.2	878	1	....
484,023	183	37.8	8	1.7	371,185	591	159.2	14	3.8	117,766	508	431.4	18	15.3	3,181	3	....
255,702	44	17.2	1	0.4	198,410	254	128.0	2	1.0	62,855	241	383.4	3	4.8	2,211	2	....
228,321	139	60.9	7	3.1	172,775	337	195.1	12	6.9	54,911	267	486.2	15	27.3	970	1	....
491,200	183	37.3	9	1.8	**379,023**	660	174.1	13	3.4	**121,160**	558	460.5	19	15.7	**3,526**	2	....
258,996	58	22.4	2	0.8	**202,679**	234	115.5	4	2.0	**64,540**	280	433.8	6	9.3	**2,463**	1	....
232,204	125	53.8	7	3.0	**176,344**	426	241.6	9	5.1	**56,620**	278	491.0	13	23.0	**1,063**	1	....
498,377	215	43.1	5	1.0	386,861	642	166.0	22	5.7	124,555	570	457.6	12	9.6	3,871	3	....
262,291	64	24.4	....	.....	206,948	258	124.7	10	4.8	66,225	286	431.9	4	6.0	2,715	1	....
236,086	151	64.0	5	2.1	179,913	384	213.4	12	6.7	58,329	284	486.9	8	13.7	1,156	2	....
505,555	200	39.6	5	1.0	394,698	682	172.8	18	4.6	127,949	557	435.3	14	10.9	4,216	5	....
265,585	53	20.0	2	0.8	211,217	267	126.4	5	2.4	67,911	283	416.7	5	7.4	2,967	4	....
239,970	147	61.3	3	1.3	183,482	415	226.2	13	7.1	60,038	274	456.4	9	15.0	1,248	1	....

Table 30.—Concluded.—Deaths

Years.	Sex.	All ages.					Under 15 years.					15 to 29 years.			
		Population.	Cancer.		*Tumor.*		Population.	Cancer.		*Tumor.*		Population.	Cancer.		*Tum*
			Deaths.	Death rates.	*Deaths.*	*Death rates.*		Deaths.	Death rates.	*Deaths.*	*Death rates.*		Deaths.	Death rates.	*Deaths.*
1872-76.....	Total.....	1,341,825.8	187.4	14.0	*41.8*	*3.1*	501,918.6	12.6	2.5	*7.4*	*1.5*	390,845.2	7.2	1.8	*6.0*
	Males.....	701,785.4	81.6	11.6	*12.8*	*1.8*	255,097.8	7.0	2.7	*3.6*	*1.4*	204,336.6	2.4	1.2	*1.0*
	Females..	640,040.8	105.8	16.5	*29.0*	*4.5*	246,820.8	5.6	2.3	*3.8*	*1.5*	186,508.6	4.8	2.6	*5.0*
1877-81.....	Total.....	1,587,191.8	280.2	17.7	*65.6*	*4.1*	566,331.2	11.6	2.0	*6.0*	*1.1*	459,571.6	10.0	2.2	*7.8*
	Males.....	834,929.8	117.6	14.1	*21.2*	*2.5*	287,960.0	4.8	1.7	*2.0*	*0.7*	243,230.6	4.4	1.8	*2.2*
	Females..	752,262.2	162.6	21.6	*44.4*	*5.9*	278,371.2	6.8	2.4	*4.0*	*1.4*	216,341.0	5.6	2.6	*5.6*
1882-86.....	Total.....	1,845,173.2	367.8	19.9	*81.2*	*4.4*	636,163.2	13.2	2.1	*6.4*	*1.0*	531,911 0	13.2	2.5	*11.2*
	Males	969,430.4	165.2	17.0	*21.8*	*2.2*	322,972.4	7.4	2.3	*3.2*	*1.0*	279,495.4	4.2	1.5	*2.8*
	Females..	875,742.6	202.6	23.1	*59.4*	*6.8*	313,190.8	5.8	1.9	*3.2*	*1.0*	252,415.6	9.0	3.6	*8.4*
1887-91.....	Total.....	2,053,230.6	498.4	24.3	*116.4*	*5.7*	686,406.2	14.2	2.1	*11.2*	*1.6*	578,119.4	17.4	3.0	*10.2*
	Males.....	1,071,768.4	205.8	19.2	*31.0*	*2.9*	347,857.0	6.6	1.9	*5.2*	*1.5*	298,226.0	6.6	2.2	*2.6*
	Females..	981,462.2	292.6	29.8	*85.4*	*8.7*	338,549.2	7.6	2.2	*6.0*	*1.8*	279,893.4	10.8	3.9	*8.2*
1892-96.....	Total.....	2,237,412.2	683.2	30.5	*155.4*	*6.9*	738,472.2	7.2	1.0	*14.2*	*1.9*	615,841.4	20.2	3.3	*18.0*
	Males.....	1,159,062.6	287.2	24.8	*42.2*	*3.6*	374,608.0	3.8	1.0	*7.6*	*2.0*	312,109.6	7.8	2.5	*4.8*
	Females..	1,078,349.8	396.0	36.7	*113.2*	*10.5*	363,864.2	3.4	0.9	*6.6*	*1.8*	303,731.8	12.4	4.1	*13.2*
1872-96.....	Total.....	1,812,966.72	403.40	22.3	*92.08*	*5.1*	625,858.28	11.76	1.9	*9.04*	*1.4*	515,257.72	13.6	2.6	*10.64*
	Males.....	947,395.32	171.48	18.1	*25.80*	*2.7*	317,697.64	5.92	1.9	*4.32*	*1.4*	267,479.64	5.08	1.9	*2.56*
	Females..	865,571.52	231.92	26.8	*66.28*	*7.7*	308,159.24	5.84	1.9	*4.72*	*1.5*	247,778.08	8.52	3.4	*8.08*
1898-1902...	Total.....	2,420,981.6	1,416.4	58.5	*49.8*	*2.1*	772,334.2	16.8	2.2	*2.2*	*0.3*	653,730.0	34.6	5.3	*3.4*
	Males	1,248,905.2	594.6	47.6	*14.4*	*1.2*	390,735.2	10.0	2.6	*1.6*	*0.4*	329,492.0	13.6	4.1	*1.4*
	Females..	1,172,076.8	821.8	70.1	*35.4*	*3.0*	381,599.0	6.8	1.8	*0.6*	*0.2*	324,247.0	21.0	6.5	*2.0*

* The age distribution of deaths is not given for the years 1870-71 because compilation was made only decennial age periods prior to 1872. The year 1896 is taken as the end of the old series, because the n law was in effect during the latter part of the year. Total and partial populations are separately estima by the method of average annual increase, with no adjustment to balance to total. Census data are in b face type; only the total population was available by State census of 1874. Unknown ages are not distribut Also 206 persons of unknown sex, of whom only 6 were of specified ages, are not included in the distribut of population according to the State census of 1884.

death rates from cancer and tumor.

30 to 34 years.					45 to 64 years.					65 years and over.					Unknown ages.		
	Cancer.		*Tumor.*			Cancer.		*Tumor.*			Cancer.		*Tumor.*				
Population.	Deaths.	Death rates.	*Deaths.*	*Death rates.*	Population.	Deaths.	Death rates.	*Deaths.*	*Death rates.*	Population.	Deaths.	Death rates.	*Deaths.*	*Death rates.*	Population.	Cancer.	*Tumor.*
256,082.0	27.8	10.9	*8.2*	*3.2*	173,947.4	85.2	49.0	*13.6*	*7.8*	42,410.2	51.6	121.7	*6.0*	*14.1*	7.6	3.0	*0.6*
136,273.2	9.4	6.9	*1.2*	*0.9*	96,549.0	34.6	35.8	*4.4*	*4.6*	23,328.4	26.6	114.0	*2.6*	*11.1*	4.4	1.6	....
119,808.8	18.4	15.4	*7.0*	*5.8*	77,398.4	50.6	65.4	*9.2*	*11.9*	19,081.8	25.0	131.0	*3.4*	*17.8*	3.2	1.4	*0.6*
302,748.0	42.2	13.9	*14.6*	*4.8*	209,848.4	132.2	63.0	*25.6*	*12.2*	54,844.0	80.2	146.2	*10.8*	*19.7*	74.6	4.0	*0.8*
162,109.6	11.8	7.3	*2.0*	*1.2*	115,267.8	50.4	43.7	*9.6*	*8.3*	29,980.8	44.4	148.1	*5.4*	*18.0*	56.2	1.8	....
140,638.4	30.4	21.6	*12.6*	*9.0*	94,580.6	81.8	86.5	*16.0*	*16.9*	24,863.2	35.8	144.0	*5.4*	*21.7*	18.4	2.2	*0.8*
356,455.2	56.4	15.8	*16.8*	*4.7*	249,841.0	161.6	64.7	*30.2*	*12.1*	69,114.4	116.6	168.7	*15.6*	*22.6*	1,535.0	6.8	*1.0*
192,594.0	16.8	8.7	*3.2*	*1.7*	135,515.6	66.8	49.3	*7.0*	*5.2*	37,635.0	67.2	178.6	*5.4*	*14.3*	1,138.0	2.8	*0.2*
163,861.2	39.6	24.2	*13.6*	*8.3*	114,325.4	94.8	82.9	*23.2*	*20.3*	31,479.4	49.4	156.9	*10.2*	*32.4*	397.0	4.0	*0.8*
403,795.0	79.2	19.6	*27.8*	*6.9*	293,272.2	221.2	75.4	*44.0*	*15.0*	87,912.2	160.6	182.7	*22.2*	*25.3*	3,684.6	5.8	*1.0*
218,045.8	21.0	9.6	*4.8*	*2.2*	157,341.6	84.4	53.6	*11.2*	*7.1*	47,695.6	85.2	178.6	*7.6*	*15.9*	2,581.2	2.0	*0.2*
185,749.2	58.2	31.3	*23.0*	*12.4*	135,930.6	136.8	100.6	*32.8*	*24.1*	40,216.6	75.4	187.5	*14.6*	*36.3*	1,103.4	3.8	*0.8*
447,184.2	98.6	22.0	*38.8*	*8.7*	332,257.0	325.4	97.9	*54.4*	*16.4*	101,549.4	224.8	221.4	*29.2*	*28.8*	2,109.4	7.0	*0.8*
238,792.0	27.4	11.5	*7.6*	*3.2*	177,352.6	125.4	70.7	*12.4*	*7.0*	54,779.8	120.0	219.1	*9.8*	*17.9*	1,421.2	2.8	....
208,392.2	71.2	34.2	*31.2*	*15.0*	154,904.4	200.0	129.1	*42.0*	*27.1*	46,769.6	104.8	224.1	*19.4*	*41.5*	688.2	4.2	*0.8*
353,252.88	60.84	17.2	*21.24*	*6.0*	251,833.20	185.12	73.5	*33.56*	*13.3*	71,166.04	126.76	178.1	*16.76*	*23.6*	1,482.24	5.32	*0.84*
189,562.92	17.28	9.1	*3.76*	*2.0*	136,405.32	72.32	53.0	*8.92*	*6.5*	38,683.92	68.68	177.5	*6.16*	*15.9*	1,040.20	2.20	*0.08*
163,689.96	43.56	26.6	*17.48*	*10.7*	115,427.88	112.80	97.7	*24.64*	*21.3*	32,482.12	58.08	178.8	*10.6*	*32.6*	442.04	3.12	*0.76*
491,200.0	193.4	39.4	*8.8*	*1.8*	379,022.8	633.6	167.2	*18.8*	*5.0*	121,160.2	535.0	441.6	*16.6*	*13.7*	3,526.2	3.0	....
258,996.2	55.6	21.5	*1.6*	*0.6*	202,679.0	247.4	122.1	*5.4*	*2.7*	64,540.0	266.2	412.5	*4.6*	*7.1*	2,463.0	1.8	....
232,203.8	137.8	59.3	*7.2*	*3.1*	176,344.0	386.2	219.0	*13.4*	*7.6*	56,620.0	268.8	474.7	*12.0*	*21.2*	1,063.0	1.2	....

DISEASES OF THE NERVOUS SYSTEM.

The following comparative statement shows the number of deaths and the death rates per 100,000 population as compiled from diseases affecting the nervous system:

	Deaths.			
	1901.	*1900.*	*1899.*	*1898.*
Total diseases of the nervous system	4,012	4,056	4,568	3,963
Meningitis	427	514	1,051	671
Apoplexy	1,243	1,259	1,225	1,144
Paralysis	799	788	842	789
Convulsions	550	542	474	540
Other nervous diseases	993	953	976	819
	Death rates per 100,000 population.			
Total diseases of the nervous system	163.6	167.4	191.4	168.7
Meningitis	17.4	21.2	44.1	28.5
Apoplexy	50.7	52.0	51.3	48.7
Paralysis	32.6	32.5	35.3	33.6
Convulsions	22.4	22.4	19.9	23.0
Other nervous diseases	40.5	39.3	40.8	34.9

It would appear that the mortality from this class of diseases has rather declined during the past four years, and that excepting the epidemic prevalence of meningitis in 1899 no remarkable amounts of mortality have been recorded from any of the constituent causes.

This group undoubtedly includes many deaths not correctly assignable, in their true etiology, to diseases of the nervous system. Thus deaths from meningitis may be in part from "simple" or "idiopathic" meningitis, from epidemic cerebrospinal meningitis, or from meningitis following pneumonia, typhoid fever, and other acute infectious diseases. It may also include some deaths from tuberculous meningitis, the element of tuberculosis not having been properly specified in the physician's certificate; when known to be such these cases are included under tuberculous diseases. Apoplexy and paralysis may stand for deaths due to an identical cause, namely, arterial degeneration and rupture of cerebral vessels, with consequent hemorrhage in the brain. It is evident that the disease in such a case is primarily one of the circulatory and not of the nervous system, and this fact is recognized by the latest classification adopted by the Registrar-General of England. "Paralysis" is an indefinite term; the cause of the paralysis should always be given by the reporting physician, which fact would enable many deaths so reported to be properly

classified. "Convulsions" also is a most unsatisfactory term, being based upon a mere symptom common to many diseases and conditions. Many of these deaths are due to infantile diarrhea and enteritis, but the distribution by months throughout the year, as shown in a following table, would indicate that other causes were responsible for the majority of cases, as the maximum mortality does not occur in the months most susceptible to cholera infantum in all sections of the State, but in the Southern counties may be found in March.

Following is a detailed statement, by months, geographical sections and ages, of the mortality for the year from the more important diseases of the nervous system:

Table 31.—Deaths from meningitis in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	427	17.4	37	21	46	41	42	36	51	37	42	25	20	29
I. Upper Peninsula.....	46	17.0	4	1	5	5	4	2	4	3	4	5	6	3
II. Northern counties...	57	18.8	3	2	6	5	5	2	7	6	9	5	1	6
III. Central counties...	77	17.4	6	6	8	7	9	9	6	10	10	3	3	.....
IV. Southern counties...	247	17.2	24	12	27	24	24	23	34	18	19	12	10	20

Deaths by sex, 1901.		Deaths by ages, 1901.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
233	194	138	257	40	297	38	28	25	17	7	6	7	2

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Table 32.—Deaths from apoplexy in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	1,243	50.7	109	111	125	110	108	93	73	91	97	105	99	122
I. Upper Peninsula.....	55	20.3	5	8	4	6	4	4	2	4	3	6	5	4
II. Northern counties...	94	31.0	7	11	8	8	4	9	4	5	11	8	10	9
III. Central counties...	199	45.1	15	10	14	13	26	13	19	22	13	21	12	21
IV. Southern counties..	895	62.3	82	82	99	83	74	67	48	60	70	70	72	88

Deaths by sex, 1901.		Deaths by ages, 1901.*												
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
668	575	37	56	5	61	16	25	35	68	179	313	356	185

* Includes five deaths at unknown ages.

Table 33.—Deaths from paralysis in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	799	32.6	76	81	86	76	61	63	56	41	67	68	56	68
I. Upper Peninsula.....	20	7.4	3	1	2	.....	2	1	1	1	2	1	5	1
II. Northern counties...	72	23.7	3	11	5	6	7	4	8	3	8	6	5	6
III. Central counties...	131	29.7	10	6	14	19	11	11	9	10	11	11	11	8
IV. Southern counties...	576	40.1	60	63	65	51	41	47	38	27	46	50	35	53

Deaths by sex, 1901.		Deaths by ages, 1901.*												
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
421	378	6	9	.....	9	9	9	20	49	99	165	265	172

* Includes two deaths at unknown ages.

Table 34.—Deaths from convulsions in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	550	22.4	49	46	68	49	45	58	56	34	39	30	39	37
I. Upper Peninsula.....	98	36.2	3	6	12	7	11	11	8	6	11	8	7	8
II. Northern counties..	65	21.4	4	4	8	5	4	4	8	5	6	3	8	6
III. Central counties..	80	18.1	9	9	6	7	10	9	7	8	3	5	4	3
IV. Southern counties..	307	21.4	33	27	42	30	20	34	33	15	19	14	20	20

Deaths by sex, 1901.		Deaths by ages, 1901.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
301	249	458	525	7	532	4	5	1	1	1	2	2	2

DISEASES OF THE CIRCULATORY SYSTEM.

The total number of deaths, together with death rates per 100,000 population, from the causes here compiled may be seen in the following statement, which merely attempts to distinguish two varieties of returns, namely, deaths reported for some definite form of organic heart disease and deaths from endocarditis, pericarditis, diseases of the arteries and veins, and other and indefinitely reported diseases of the circulatory system, including deaths reported from "hemorrhage" with unspecified cause.

	Deaths.			
	1901.	*1900.*	*1899.*	*1898.*
Total diseases of the circulatory system.....	3,291	3,059	2,776	2,540
Heart disease.....	2,691	2,472	2,227	2,016
Other circulatory disease.....	600	587	549	524
	Death rates per 100,000 population.			
Total diseases of the circulatory system.....	134.3	126.3	116.3	108.1
Heart disease.....	109.8	102.1	93.3	85.8
Other circulatory diseases.....	24.5	24.2	23.0	22.2

This class does not include deaths from "heart failure," which are regarded as too worthless, so far as nosological statistics are concerned, to be included among deaths from diseases of any specified organ.

The marked and steady increase in the registered mortality from heart diseases is a feature of great interest. If deaths from "heart failure," a portion of which may be due to actual organic disease of the heart, were included, the number of deaths from this cause would be still higher, but even as it is, the number of deaths from organic heart disease in Michigan in 1901 exceeded those from any other single cause recorded, although the total number of deaths from all forms of pneumonia was somewhat greater.

The distribution of deaths from organic heart disease during the year 1901 may be seen in Table 35, according to which it appears that the death rate from this disease increased progressively in passing from the Upper Peninsula to the Southern counties. This might have been expected as the deaths from heart disease are chiefly those of elderly persons, and the general age distribution of the population is more favorable to a high ratio of deaths from this cause in the older and more thickly settled portion of the State.

Table 35.—Deaths from heart disease in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	2,691	109.8	246	240	236	259	246	212	201	196	209	183	222	241
I. Upper Peninsula.....	135	49.9	10	10	9	13	22	10	8	7	11	16	12	7
II. Northern counties..	216	71.2	19	30	17	19	25	18	10	21	14	11	18	14
III. Central counties..	417	94.4	35	36	42	38	36	25	37	28	37	29	36	38
IV. Southern counties..	1,923	133.9	182	164	168	189	163	159	146	140	147	127	156	182

Deaths by sex, 1901.		Deaths by ages, 1901.*												
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
1,521	1,170	58	75	12	87	68	72	126	228	398	658	727	321

* Includes six deaths at unknown ages.

DISEASES OF THE RESPIRATORY SYSTEM.

Diseases of the respiratory system are among the most important causes of death in Michigan. In this group may be found the following figures for deaths and death rates per 100,000 population during the past four years:

	Deaths.			
	1901.	*1900.*	*1899.*	*1898.*
Total diseases of the respiratory system	4,377	3,877	3,990	3,226
Bronchitis	869	802	785	643
Pneumonia (total)	*2,901*	*2,388*	*2,479*	*2,047*
Bronchopneumonia	489	353	287	242
Pneumonia	2,412	2,035	2,192	1,805
Pleurisy	89	159	134	107
Other respiratory diseases	518	528	592	439
	Death rates per 100,000 population.			
Total diseases of the respiratory system	178.7	160.2	167.2	137.7
Bronchitis	35.5	33.1	32.9	27.4
Pneumonia (total)	*118.4*	*98.7*	*103.9*	*87.1*
Bronchopneumonia	20.0	14.6	12.0	10.3
Pneumonia	98.4	84.1	91.9	76.8
Pleurisy	3.4	6.6	5.6	4.5
Other respiratory diseases	21.4	21.8	24.8	18.7

The total given above does not include, however, the entire list of diseases chiefly affecting the respiratory organs. Pulmonary tuberculosis is a disease chiefly affecting the lungs, and many deaths registered from influenza are in their onset, course and termination chiefly confined to the respiratory tract. Fatal cases of measles are frequently the results of pneumonia as a complication, and many deaths from organic heart, liver or kidney disease present terminal pneumonias as the closing incident of life. In order to compare the chief causes of death affecting the respiratory tract, we may consider the total compiled under this group above in connection with deaths from influenza and pulmonary tuberculosis:

	Deaths.			
	1901.	1900.	1899.	1898.
Total diseases of the respiratory system, influenza and pulmonary tuberculosis	7,628	6,395	7,761	5,84[illegible]
Per cent to deaths from all causes	23.2	19.7	24.0	20.[illegible]
Diseases of the respiratory system	4,377	3,877	3,990	3,23[illegible]
Influenza	1,099	500	1,673	455
Pulmonary tuberculosis	2,152	2,018	2,098	2,153
	Death rates per 100,000 population.			
Total diseases of the respiratory system, influenza and pulmonary tuberculosis	311.3	264.3	325.2	248.7
Diseases of the respiratory system	178.7	160.2	167.2	137.7
Influenza	44.8	20.7	70.1	19.4
Pulmonary tuberculosis	87.8	83.4	87.9	91.6

Table 36.—Deaths from bronchitis in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	869	35.5	133	116	134	99	64	52	24	22	36	40	65	84
I. Upper Peninsula	123	45.5	10	18	26	14	8	10	2	4	5	8	8	10
II. Northern counties	95	31.3	18	15	14	15	6	5	2	2	4	.....	8	6
III. Central counties	119	27.0	21	19	15	18	6	6	1	3	5	9	7	9
IV. Southern counties	532	37.1	84	64	79	52	44	31	19	13	22	23	42	59

Deaths by sex, 1901.		Deaths by ages, 1901.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
406	463	326	452	8	460	5	18	17	13	40	77	141	95

* Includes three deaths at unknown ages.

Table 37.—Deaths from bronchopneumonia in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	489	20.0	74	69	101	50	32	24	10	9	10	31	29	50
I. Upper Peninsula.....	68	25.1	7	8	14	9	5	8	.....	1	1	7	5	3
II. Northern counties..	45	14.8	6	7	12	5	5	1	2	1	1	2	1	2
III. Central counties..	69	15.6	15	9	12	6	3	3	.....	2	5	4	1	9
IV. Southern counties..	307	21.4	46	45	63	30	19	12	8	5	3	18	22	36

Deaths by sex, 1901.		Deaths by ages, 1901.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
239	250	228	318	15	333	9	5	12	9	21	34	38	28

Table 38.—Deaths from pneumonia in Michigan, 1901

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	2,412	98.4	334	397	372	311	197	121	54	39	68	96	155	268
I. Upper Peninsula.....	220	81.3	26	31	25	24	21	14	5	8	12	8	17	29
II. Northern counties..	317	104.5	43	48	46	46	33	22	4	5	9	9	18	34
III. Central counties..	472	106.9	61	83	83	66	40	18	11	6	12	20	27	45
IV. Southern counties..	1,403	97.7	204	235	218	175	103	67	34	20	35	59	93	160

Deaths by sex, 1901.		Deaths by ages, 1901.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
1,352	1,060	486	705	61	766	138	166	183	207	225	272	293	158

* Includes four deaths at unknown ages.

It appears, from comparison of the ratios of the deaths from diseases affecting the respiratory organs, that from one-fifth to one-quarter of the total number of deaths in Michigan for each of the past four years were from this class of causes. The mortality was highest in 1899 and 1901 chiefly from the epidemic prevalence of influenza; pulmonary tuberculosis showed comparatively little variation, while the total deaths from other respiratory diseases, including pneumonia followed the tendency of influenza.

DISEASES OF THE DIGESTIVE SYSTEM.

Disease affecting the digestive system are of great numerical importance as causes of death, in one year, 1900, out of the past four exceeding the deaths from any other region of the organism, and in the other three years standing second in number. While the titles included are not all of the same precision and definite value, we may consider the movement of these diseases in Michigan for the past four years in the following statement:

	Deaths.			
	1901.	*1900.*	*1899.*	*1898.*
Total diseases of the digestive system	4,354	5,224	4,293	3,956
Diseases of stomach	508	650	550	484
Diarrhea and enteritis, under two years	1,768	2,338	1,720	1,633
Diarrhea and enteritis, aged two years and over	526	611	588	463
Hernia and obstruction of bowels	332	243	241	254
Cirrhosis of liver	211	190	145	148
Other liver diseases	287	404	351	329
Peritonitis	277	343	306	284
Appendicitis	263	221	223	165
Other digestive diseases	182	224	169	196
	Death rates per 100,000 population.			
Total diseases of the digestive system	177.5	215.7	180.0	168.3
Diseases of stomach	20.7	26.8	23.1	20.6
Diarrhea and enteritis, under two years	72.1	96.6	72.2	69.5
Diarrhea and enteritis, aged two years and over	21.5	25.2	24.6	19.7
Hernia and obstruction of bowels	13.5	10.0	10.1	10.8
Cirrhosis of liver	8 6	7.8	6.1	6.3
Other liver diseases	11.7	16.7	14.7	14.0
Peritonitis	11.3	14.2	12.8	12.1
Appendicitis	10.7	9.1	9.3	7.0
Other digestive diseases	7.4	9.3	7.1	8.3

The year 1901 was evidently more favorable than either 1900 or 1899 as regards mortality from this class of diseases. The high death rate from diarrheal diseases of children under two years of age should be considered in connection with the fact that the other diseases given are not limited to any particular age periods, excepting only the complementary statement of diarrhea and enteritis over two years of age. Even on this basis, the mortality from infantile diarrhea is much greater than that of any other disease in this group, and if comparison were made of the deaths of infants from diarrhea per 100,000 population of the same age, it would be found that the death rates would be enormously increased. Such a comparison may be found in the preceding Registration Report, p. lxx, for the year 1900, where it appeared that the general death rate from infantile diarrhea under five years of age was 103.4 per 100,000 general population, while the rate for infants under one year of age to population under one year was 4,319.9 per 100,000 or over 40 times as great, while that for children under five years was 959.9 per 100,000, or over nine times as great as the crude rate based on gross population.

In Tables 39, 40 and 41 the monthly prevalence, age, sex and geographical distribution are shown for diseases of the stomach, diarrhea and enteritis under two years of age and over that age:

Table 39.—Deaths from diseases of stomach in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	508	20.7	45	33	48	48	71	34	40	39	41	36	36	37
I. Upper Peninsula.....	48	17.7	5	6	3	3	3	3	4	4	2	6	3	6
II. Northern counties..	55	18.1	9	8	2	3	9	4	2	6	4	3	3	2
III. Central counties..	100	22.6	2	2	15	14	20	8	10	5	14	3	3	4
IV. Southern counties..	305	21.2	29	17	28	28	39	19	24	24	21	24	27	25

Deaths by sex, 1901.		Deaths by ages, 1901.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
250	258	121	149	9	158	12	18	18	46	46	74	88	47

* Includes one death at unknown age.

Table 40.—Deaths from diarrhea and enteritis, under 2 years, in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	1,768	72.1	47	40	55	57	61	107	255	430	451	169	50	46
I. Upper Peninsula.....	342	126.4	10	8	10	15	13	14	36	121	85	15	11	4
II. Northern counties..	213	70.2	6	4	10	6	7	13	15	42	73	23	9	5
III. Central counties..	308	69.8	13	9	8	13	7	9	20	81	92	40	8	8
IV. Southern counties..	905	63.0	18	19	27	23	34	71	184	186	201	91	22	29

Deaths by sex, 1901.		Deaths by ages, 1901.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
988	779	1,474	1,767	.....	1,767	.....	.....	.....	.....	.....	.....	.....	.....

* Includes one death at unknown age, and one of unknown sex.

Table 41.—Deaths from diarrhea and enteritis, over 2 years, in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	526	21.5	30	28	35	33	31	32	40	81	100	58	31	27
I. Upper Peninsula.....	41	15.2	1	1	3	1	2	2	2	8	13	5	3	.....
II. Northern counties..	54	17.8	3	3	6	2	4	4	3	9	8	8	3	1
III. Central counties..	100	22.6	4	3	7	5	6	6	7	13	26	12	4	7
IV. Southern counties..	331	23.1	22	21	19	25	19	20	28	51	53	33	21	19

Deaths by sex, 1901.		Deaths by ages, 1901.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
268	258	.....	119	22	141	29	37	20	22	57	80	85	54

* Includes one death at unknown age.

DISEASES OF THE GENITO-URINARY SYSTEM.

The principal cause of death in this group is Bright's disease, from which 1,050 deaths were returned for the year 1901, corresponding to a rate of 42.8 per 100,000 population. All other diseases of this class amounted to 598 or 24.4 per 100,000 population. "Bright's disease" includes acute and chronic nephritis, in various forms, besides a considerable number of deaths from "uremia" or "uremic poisoning," which terms cannot be regarded as very definite. It would seem from comparison with preceding years that there has been some tendency to increase of late in the number of deaths compiled under Bright's disease:

Years.	Deaths from Bright's disease.	Death rates per 100,000 population.
1901	1,050	42.8
1900	852	35.2
1899	965	40.4
1898	915	38.9

In Table 42 may be found a statement of the incidence of the mortality from Bright's disease in the different sections of the State and by age and sex for the year:

Table 42.—Deaths from Bright's disease in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	1,050	42.8	106	82	100	79	100	84	75	89	82	77	78	98
I. Upper Peninsula	62	22.9	4	3	2	1	7	4	9	5	4	7	5	11
II. Northern counties	91	30.0	9	8	12	6	8	7	7	11	6	3	4	10
III. Central counties	171	38.7	22	14	16	18	22	10	14	8	13	7	11	16
IV. Southern counties	726	50.6	71	57	70	54	63	63	45	65	59	60	58	61

Deaths by sex, 1901.		Deaths by ages, 1901.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
617	433	20	35	9	44	29	65	71	109	170	238	233	95

* Includes two deaths at unknown ages.

DEATHS FROM VIOLENCE.

Deaths from accidents and all other forms of violence, including suicides and homicides, so far as the returns distinguish the causes of violent deaths, may be found in the following statement for the past four years:

	Deaths.			
	1901.	*1900.*	*1899.*	*1898.*
Total deaths from violence	2,251	1,966	1,796	1,677
Accidental	1,978	1,740	1,579	1,455
Suicidal	238	211	189	189
Homicidal	35	15	28	33
	Death rates per 100,000 population.			
Total deaths from violence	91.8	81.2	75.3	71.3
Accidental	80.7	71.9	66.2	61.9
Suicidal	9.7	8.7	7.9	8.0
Homicidal	1.4	0.6	1.2	1.4

Table 43.—Deaths from suicide in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	238	9.7	13	16	16	21	11	23	23	25	16	34	20	20
I. Upper Peninsula	26	9.6	1	1	1	3	1	1	3	2	2	5	3	3
II. Northern counties	17	5.6	.....	.....	.....	2	1	3	2	1	3	1	1	3
III. Central counties	31	7.0	2	1	3	2	.....	8	4	4	.....	3	3	1
IV. Southern counties	164	11.4	10	14	12	14	9	11	14	18	11	25	13	13

Deaths by sex, 1901.		Deaths by ages, 1901.*											
Males.	Females	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
176	62	.....	.....	1	1	11	36	43	47	43	33	20	3

* Includes one death at unknown age.

Table 44.—Deaths from accidents in Michigan, 1901.

Geographical sections.	Total deaths, 1901.	Death rate per 100,000 estimated population.	Deaths by months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	1,978	80.7	137	98	114	123	167	185	253	188	209	160	197	147
I. Upper Peninsula.....	418	154.5	35	20	15	27	41	47	43	45	54	34	29	28
II. Northern counties..	250	82.4	14	9	17	12	* 21	24	34	27	31	28	13	20
III. Central counties..	281	63.6	21	12	18	15	27	18	35	23	30	28	32	22
IV. Southern counties..	1,029	71.7	67	57	64	69	78	96	141	93	94	70	123	77

Deaths by sex, 1901.		Deaths by ages, 1901.*												
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
1,546	424	140	304	94	398	245	318	232	187	173	127	136	111

* Includes fifty-one deaths at unknown ages and fourteen of unknown sex.

The age, sex and geographic distribution of the deaths reported from suicide and accidental violence may be found in Tables 43 and 44. The number of deaths compiled as due to homicide is so small that it was not considered necessary to present a similar table, but full details may be found in the primary tables under this item in the classified list of causes of deaths.

SOME MINOR AND INDEFINITE CAUSES OF DEATH.

Various forms of skin affections, not including the infectious exanthemata, caused 172 deaths during the year, diseases of the locomotor system, exclusive of tuberculosis and rheumatism, caused 46 deaths, and malformations were responsible for 306 deaths. The latter term includes congenital malformation of the heart (cyanosis, nonclosure of foramen ovale) formerly classified under organic heart disease, which fact accounts for the increase in 1901 as compared with the preceding years. Premature births numbered 524, these being children born alive but who died before the completion of the third month. There were also 677 deaths compiled from "congenital debility" or similar indefinite causes of death of young infants (under three months), while the return of "old age," "senile debility," and other expressions, practically valueless as indicating the cause of death but merely indicating that the decedent was an old person who died from some unknown cause, accounted for no less than 1,193 cases. This term is never selected in compilation in preference to any more definite cause, and for years prior to 1900 was even made to yield to such indefinite causes as "dropsy" and "heart fail-

ure" in the hope that the term was destined to disappear from the classification after its revision. As it was retained, it is now treated like all other terms occurring outside of the ill-defined and indefinite class, to which it strictly belongs, and the result is a somewhat increased apparent prevalence of this cause of death for 1901. The total deaths from ill-defined causes, 1,051, should include the ill-defined causes of infants under three months of age, 677, and those of elderly persons over 65 years ("old age," 1,193), making a total of 2,921 deaths from causes practically uncertified, so worthless are they for statistical compilation, and which must be considered as a possible factor of correction in studying the deaths reported from more definite causes.

PART III.—MARRIAGES IN MICHIGAN DURING THE YEAR 1901.

There were 24,079 marriages returned to the State Department as having occurred in Michigan during the year 1901. This number exceeds that registered for the preceding year by 784, and corresponds to a rate of 19.6 persons married per 1,000 estimated population. These figures may be compared in Table 2, page xi, with the corresponding figures for previous years of registration, from which it appears that the number of marriages for the year was the largest and the marriage rate the highest ever recorded in the State.

SUMMARY OF THE REGISTRATION OF MARRIAGES IN MICHIGAN, 1901.

Some of the most important facts relative to the registration of marriages in Michigan during the year 1901 are herewith presented:

Total number of marriages returned, 1901	24,079
Persons married per 1,000 population, 1901	19.6

The above statement does not include 40 marriages performed by Judges of Probate under the act authorizing secret marriages in certain cases. Twenty of these secret marriages were at illegal ages according to the general laws of the State and others gave legal sanction to common-law unions, the couples being supposed to have been regularly married by the communities in which they live. A table showing the age distribution of these marriages may be found on page 73.

As compared with the preceding year of registration, we have:

Increase of marriages registered for the year 1901, (24,079) over the number for 1900 (23,295)	784

As to the occurrence of marriages by months, we have:

More than average number	June, September, October, November, December
Less than average number	January, February, March, April, May, July, August
Favorite month for marriages, 1901	October, 2,642 or 25 4 per 1,000
Month of fewest marriages and lowest rate, 1901	March, 1,360 or 13.1 per 1,000

Of the 24,079 marriages, there were with respect to nativity:

Both bridegroom and bride of native birth	15,606 or 64.8 per cent
Both bridegroom and bride of foreign birth	3,102 or 12.9 per cent

Including mixed marriages, that is, marriages in which bridegroom and bride were of different nativities there were:

Males of native birth married, 1901	17,837 or 74.1 per cent
Males of foreign birth married, 1901	6,231 or 25.9 per cent
Females of native birth married, 1901	18,685 or 77.6 per cent
Females of foreign birth married, 1901	5,011 or 20.8 per cent

As to age at marriage, the most important groups were:

Males aged 20 to 24 years, both inclusive	8,951 or 37.2 per cent
Males aged 25 to 29 years, both inclusive	7,304 or 30 3 per cent
Females under 20 years of age	6,560 or 27.2 per cent
Females aged 20 to 24 years, both inclusive	9,800 or 47.0 per cent

MARRIAGES AND MARRIAGE RATES BY COUNTIES, 1901.

Besides the primary tables giving a full statement of the marriages returned from each county by months and periods of ages of persons married (Table I, page 63 and Table II, page 65) together with the statement of nativity of persons married by counties (Table III, page 70), reference may be made to Table 6, which shows the marriage rates for each county for the year. These rates are stated, as is the preferable statistical custom, as the number of *persons married* per 1,000 estimated population. In general such comparisons of marriages or persons married to the population are subject to further analysis on the basis of the number of unmarried persons in the population and their age-distribution. Such an exceptional rate as that of Berrien county, 59.9 per 1,000, is not comparable with the figures for other counties, owing to the special conditions. As stated elsewhere this remarkably high rate of Berrien county is due to the large and increasing number of marriages of persons who are nonresidents of the State. Aside from this exception, the rates of the other counties show considerable uniformity.

MARRIAGES RETURNED BY MONTHS, 1892-1901.

In Table 45 the marriages returned in Michigan for the past ten years are shown according to the months in which the ceremonies were performed. For 1901 the largest number occurred in October, 2,642, and the least number, 1,360, was in March. The distribution of marriages through the year must be considerably affected, however, by the large number of foreign marriages in Berrien county, most of which occurred during the summer excursion season.

Table 45.—Marriages returned, by months, for the years 1892-1901; with average for the ten-year period.

Years.	Total marriages.	Months of marriage.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1892	20,107	*1,335*	1,455	1,542	1,543	1,590	1,751	1,386	1,407	1,286	2,037	**2,181**	2,049	5
1893	19,197	1,452	*1,273*	1,318	1,663	1,574	1,769	1,408	1,356	1,730	2,018	**2,060**	1,574	2
1894	18,220	1,366	*1,060*	1,403	1,552	1,348	1,486	1,262	1,256	1,704	**2,034**	1,992	1,754	3
1895	18,952	1,389	1,342	*1,324*	1,536	1,456	1,690	1,367	1,349	1,658	**2,110**	2,036	1,694	1
1896	18,897	1,443	1,271	1,368	1,684	1,361	1,762	1,305	*1,238*	1,759	1,826	**2,028**	1,846	6
1897	18,579	*1,179*	1,273	1,426	1,441	1,354	1,828	1,235	1,258	1,719	1,887	**2,044**	1,935	.....
1898	20,138	1,397	*1,302*	1,400	1,613	1,482	2,056	1,315	1,487	1,793	2,043	**2,264**	1,979	7
1899	21,877	1,343	*1,311*	1,324	1,765	1,581	2,185	1,681	1,767	2,095	2,323	**2,464**	2,038	.....
1900	23,295	1,717	1,541	*1,322*	1,765	1,779	2,398	1,800	1,876	2,192	**2,496**	2,332	2,075	2
1901	24,079	1,624	1,372	*1,360*	1,922	1,779	2,537	1,934	1,897	2,376	**2,642**	2,421	2,211	4
Av. 1892-1901.	20,334	1,425	1,320	1,379	1,648	1,530	1,946	1,469	1,489	1,831	2,142	**2,182**	1,916	3

Maxima in **bold face type**; minima in *italics*.

Comparisons of the results of the year 1901 may be made with the preceding ten years of registration by means of the same table, which has been corrected for the estimated increase of population. The total number of marriages for the year 1901 is somewhat greater than the corrected average for the ten years preceding, but if the additional foreign marriages in Berrien county be deducted, the increase will not be especially marked, when it is considered that the period 1892-1901 includes several years of very serious financial depression, a condition which is always attended with a marked reduction in the marriage rate. The month of greatest frequency of marriages in the ten-year period was November, while the largest number in 1901 occurred in October. The month of least frequency of marriages was February, while the fewest number in 1901 occurred in the month of March.

MARRIAGES BY MONTHS AND QUARTERS, 1901.

The distribution of marriages during the year 1901 is further shown in Table 46, where figures are given, not only for the numbers returned, but also showing the average number per day for each month, the rank on a standard scale and the rate per 1,000 persons married by months for the year. The month of highest rank, considered as to the choice for marriage, was October, while March was the least frequently chosen.

Table 46.—Marriages in Michigan, by months and quarters, 1901.

Year and months.	Number of marriages, 1901.		Average number per day, 1901.	Rank.	Persons married per 1,000 population, 1901.	Ten-year period, 1892-1901.		
	By months.	By quarters.				Average number.*	Average daily number.*	Rank.
Year, 1901	24,079	.....	66.0	1,200	19.6	21,534	56.3	1,200
January	1,624	4,356	52.4	79	15.6	1,509	48.6	86
February	1,372		49.0	74	14.6	1,398	49.9	89
March	1,360		43.9	67	13.1	1,460	47.1	84
April	1,922	6,238	64.1	97	19.1	1,745	58.2	103
May	1,779		57.4	87	17.1	1,620	52.3	93
June	2,537		84.6	128	25.3	2,061	68.7	122
July	1,934	6,207	62.4	95	18.6	1,556	50.2	89
August	1,897		61.2	93	18.3	1,577	50.9	90
September	2,376		79.2	120	23.7	1,939	64.6	115
October	2,642	7,274	85.2	129	25.4	1,268	40.9	73
November	2,421		80.7	122	24.1	2,311	77.0	137
December	2,211		71.3	108	21.3	2,029	65.5	116
Unknown	4	4	.....	.....	.....	3	.....	.....
Average	2,007	6,020	66.0	100	.....	.....	.....	100

*Numbers given in Table 45 multiplied by 1.0590, the ratio between the population of Michigan in 1900 and the average estimated population of the period 1892-1901. The monthly and daily numbers are, therefore, directly comparable for the year and ten-year period.

NATIVITY OF PERSONS MARRIED IN MICHIGAN, 1901.

The facts in regard to the nativity of persons married in Michigan during the year 1901, which may be found in detail in Table III, page 70, for each county of the State, are summarized in Table 47 and are compared by means of five-year averages with the corresponding figures for preceding years of registration in Table 48.

Out of the 24,079 marriages during the year, 15,606 were those in which both the bridegroom and bride were of native birth. This corresponds to a percentage of 64.8. The number of foreign born couples was 3,102, or 12.9 per cent. The percentage of native born couples increased somewhat, on the whole, from the earlier years of registration until 1899, but a decrease is noted from 1899 to 1900, and an increase from 1900 to 1901. The percentage of foreign born couples, which has decreased since the earlier years of registration, is correspondingly noted to rise from 13.3 per cent in 1899 to 13.5 per cent in 1900, dropping again, however, to 12.9 for 1901.

Table 47. By nativity, the number and per cent of brides and bridegrooms returned for the year 1901.

Bridegrooms and brides nativity specified.		Brides, 1901. Native born.	Brides, 1901. Foreign born.	Brides, 1901. Unknown.	Bridegrooms, 1901. Total of each nativity.	Bridegrooms, 1901. Per cent of each nativity.
Bridegrooms	Native born	15,606	1,909	322	17,837	74.1
	Foreign born	3,071	3,102	58	6,231	25.9
	Unknown	8	....	3	11	.04
Brides	Total of each nativity	18,685	5,011	383	24,079	.....
	Per cent of each nativity	77.6	20.8	1.6	.....	100.0

Table 48. Nativity of marriages in Michigan for the years 1896-1901; compared with averages for six successive quinquennial periods, 1871-1900.

[illegible]	Number of marriages — Per cent of total. [illegible]	[illegible]	[illegible]	Native [illegible] and foreign bride	One or both unknown.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.6
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.8
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.8
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

AGES OF PERSONS MARRIED IN MICHIGAN, 1901.

Table II, beginning on page 65, shows the age distribution of persons married in Michigan by counties during the year, and Table IV, on page 72, shows the various age combinations of persons married, by sex; that is to say, how many males under 20 married females of the same age period; how many married females aged 20-24 years, 25-29 years, and so on in order. The group of ages at which the greatest number of marriages occurred is that in which both the males and females were aged from 20-24 years, the number of marriages at these ages being 4,420. Next in order comes the group of males aged 20-24 years and females under 20, of which the number was 4,006 and then the group of males aged 25-29 years, with females aged 20-24 years, numbering 3,555. These three groups include 11,981 marriages or nearly 50 per cent of the total number recorded. The proportions of males and females married at each age period may be seen in Tables 49 and 50, respectively, with comparisons of six quinquennial periods.

In 1901 the favorite marriage age for males was the period 20-24 years, at which 37.2 per cent of males were married. This is a decrease from the preceding year, corresponding to a slight decrease observed in the following period, 25-29 years.

With females the proportion of marriages under 20 years of age is very markedly less than it was during the earlier years of registration, being only 27.2 per cent. On the other hand the proportion at the age period 20-24 years, or 40.7 per cent, is somewhat greater than that recorded for the earlier years of registration, while the percentage at the age period 25-29 years, 16.5 per cent, is greater than formerly. From 1871 to 1880, the proportion of females married under 20 years of age was greater than those married at the age period 20-24 years, but at present the ratios for these periods are about as 5 to 8. A general shifting of the distribution of ages at marriage may be observed towards the later periods.

Table 49.—Percentage of males married in Michigan at specified periods of age for the year 1901; compared with averages for six quinquennial periods, 1871-1900.

Years and periods averaged.	Ages of males married, 1871-1901.														
	Under 20.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.
Average, 1871-75..	2.6	41.2	29.5	10.6	5.5	3.3	2.3	1.7	1.0	0.8	0.5	0.3	0.1	....	0.6
Average, 1876-80..	2.6	40.8	29.8	10.8	5.6	3.2	2.2	1.6	1.1	0.8	0.5	0.3	0.1	....	0.5
Average, 1881-85..	2.3	39.5	30.7	11.4	5.7	3.2	2.2	1.6	1.0	0.9	0.5	0.3	0.1	....	0.4
Average, 1886-90..	2.1	37.7	32.4	12.2	5.7	3.0	2.4	1.5	1.1	0.8	0.6	0.3	0.1	....	0.1
Average, 1891-95..	1.9	38.1	30.8	12.7	6.0	3.2	2.3	1.7	1.2	0.9	0.7	0.3	0.1	....	.....
Average, 1896-1900	1.8	37.7	30.6	12.5	6.6	3.4	2.5	1.7	1.2	0.9	0.6	0.3	0.2	0.1	.....
Year 1901.....	1.9	37.2	30.3	13.0	6.6	3.8	2.4	1.6	1.2	0.9	0.6	0.3	0.1	....	.....

Table 50.—Percentages of females married in Michigan at specified periods of age for the year 1901; compared with averages for six quinquennial periods, 1871-1900.

Years and periods averaged.	Ages of females married, 1871-1901.														
	Under 20.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.
Average, 1871-75	38.8	36.5	12.7	5.0	3.0	2.0	1.3	0.8	0.5	0.3	0.2	....	....	....	0.9
Average, 1876-80	37.4	37.4	11.7	4.7	3.1	1.9	1.3	0.8	0.5	0.3	0.2	....	....	....	0.7
Average, 1881-85	33.8	38.7	13.7	4.9	3.1	1.9	1.3	0.8	0.5	0.3	0.2	0.1	....	....	0.6
Average, 1886-90	32.8	39.5	14.2	5.2	2.9	1.9	1.3	0.9	0.6	0.4	0.2	0.1	....	....	0.2
Average, 1891-95	30.8	40.6	14.3	5.3	3.1	2.0	1.4	1.0	0.6	0.5	0.2	0.1	....	....	.....
Average, 1896-1900	28.1	41.3	15.5	5.7	3.4	2.0	1.5	1.0	0.7	0.5	0.2	0.1	....	....	.....
Year 1901	27.2	40.7	16.5	6.2	3.4	2.1	1.4	0.9	0.6	0.4	0.3	0.1	....	....	.....

PART IV.—DIVORCES IN MICHIGAN DURING THE YEAR 1901.

There were 2,448 divorces granted in Michigan during the year 1901, according to the returns of the county clerks to the Secretary of State. This number, as shown in Table 6, corresponds to a rate of 2.0, persons divorced per 1,000 living population, which, it will be noted, is about one-tenth of the marriage rate for the year; in other words, there was about 1 divorce granted to every 10 marriages in the State during the year. It should be observed, however, that the marriages are based on the unmarried population at marriageable ages, while the divorces are drawn from the number of married couples in Michigan, hence there can be no direct comparison between the frequency of marriage and divorce considered with reference to the population capable of contributing to these events without further analysis of the figures.

It might be interesting, however, to compare these figures with those of certain other States which collect and compile similar data.

Connecticut, which was once regarded as the worst of the Eastern states in respect to divorce, now shows a ratio of only 1 divorce to 15.8 marriages. Rhode Island now has the highest ratio of any of the Eastern states in which these statistics are collected, namely, 1 divorce to about 8 marriages. In Massachusetts, there is about 1 divorce to every 20 marriages. Among the interior States, Oklahoma shows a ratio of about 1 divorce to every 11 marriages; and in Indiana, about 1 to every 6 marriages.

The number of divorces returned for Michigan during the year was greater than the number for any previous year, the number for 1900 being 2,418; for 1899, 2,218; and for 1898, 1,808, although some part of this increase of 1901 over previous years may be due, perhaps, to greater care on the part of county clerks in making complete returns.

CHILDREN AFFECTED BY DISSOLUTION OF FAMILIES, 1901.

From Table II, page 80, which, however, is presented in condensed form in Table 51 herewith, it will be noted that of the 2,448 divorces granted during the year, 646 or 26.4 per cent were granted on the application of the husband, and 1,802, or 73.6 per cent, on application of the wife. 1,961 of the couples were married in Michigan. It is noticeable that in 1,130 cases of divorce granted during the year, or about 46 per cent of the total number there were no children in the families broken up by divorce. The percentage of applications of wives in these cases is somewhat lower than the average, as is also true of families having two, three and four children. For families with one child, the percentage of applications of wives is greater than the average. The total number of children affected by divorces granted was 2,825 or an average of over one child to each divorce granted in the State.

Table 51.—Children affected by divorces in Michigan during the year 1901, showing the relation of sex of complainant to size of family.

Complainants.	Total divorces granted, 1901.	Number of children in family.																
		None.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	Unk.
Total divorces	2,448	1,230	652	316	154	80	32	29	15	12	3	5	2	2	2	1		22
Husbands	646	240	122	79	38	22	7	10	5	2	1	2	2	1	1			6
Wives	1,802	790	457	237	116	58	45	19	10	10	2	3	1	1	1	1		22
Per cent of husbands	26.4	30.3	18.8	25.0	24.6	27.5	21.9	34.5	33.3	16.7	33.3	40.0	66.7	50.0	50.0			27.3
Per cent of wives	73.6	69.1	80.2	74.9	75.4	72.5	68.8	65.5	66.7	83.3	66.7	60.0	33.3	50.0	50.0	100.0		71.0
Total number of children affected	2,455	0	652	632	462	320	280	159	105	96	27	50	32	24	26	16		.....

DURATION OF MARRIAGE PRIOR TO DIVORCE, 1901.

According to Table 52 there were 730 divorces granted in which the couples had been married less than five years; then follows the group 5-9 years, inclusive, 694; 10-14 years, 337; 15-19 years, 288. The number of divorces granted decreases very rapidly from this point, until the period 50-54 years is reached, which shows only 2 divorces. According to the returns, there were no divorces granted after this period.

The percentage of applications of husbands is above the average for marriages severed by divorce within five years, and also for those lasting from ten to fourteen years. The percentage of wives applying for divorce is higher than the average for marriages that lasted from fifteen to nineteen years; while for the period five to nine years, the percentage is the same as the average. Above the lower periods the number of marriages is too small to give any accurate deductions from a single year.

Table 52.—Duration of marriages terminated by divorces granted in Michigan during 1901, showing the relation of sex of complainant to lapse of time before divorce.

Complainants.	Divorces granted, 1901.	Duration of marriage before divorce.																
		Years under five.					Five year periods.											
		Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49	50 to 54.	Unk.
Total divorces	2,448	62	155	174	161	178	730	694	337	288	187	91	58	28	12	5	2	15
Husbands	646	20	36	47	47	45	195	186	81	67	50	22	22	11	6	4	1	1
Wives	1,802	42	119	127	114	133	535	508	256	221	137	70	36	17	6	1	1	14
Per cent of husbands	26.4	32.3	23.2	27.0	29.2	25.3	26.7	26.8	24.0	23.3	26.7	23.9	37.9	39.3	50.0	80.0	50.0	6.7
Per cent of wives	73.6	67.7	76.8	73.0	70.8	74.7	73.3	73.2	76.0	76.0	73.3	76.1	62.1	60.7	50.0	20.0	50.0	93.3

CAUSES OF DIVORCES GRANTED IN MICHIGAN, 1901.

According to the returns, as shown in Table III and summarized in Table 53, "cruelty" was the leading cause, as usual, for divorces granted in this State during the year, 881 divorces, or 36.0 per cent of the total number granted, being attributable to it, as compared with 47.5 per cent for 1900. Of this number, 270 were granted on complaint of the husband, and 611 on complaint of the wife. The next in order as a leading cause for divorce was "desertion," with 562 divorces, 262 being granted on complaint of the husband and 300 on complaint of the wife. "Nonsupport" would follow next in order, there being 328 divorces from this cause, 327 being on complaint of the wife. "Drunkenness" shows 33 divorces granted, 4 being on complaint of the husband and 29 on complaint of the wife.

Table 53.—Principal causes of divorce in Michigan during the year 1901, showing, by sex, the percentage of complainants from each cause.

Causes alleged.	Number of divorces granted, 1901.			Per cent of total.		
	Total.	To husbands.	To wives.	Total.	To husbands.	To wives.
All causes	2,448	646	1,802	100.0	100.0	100.0
Adultery	*88*	*64*	*24*	*3.6*	*9.9*	*1.3*
Adultery (sole cause alleged)	64	50	14	2.6	7.7	0.8
Adultery (with other causes)	24	14	10	1.0	2.2	0.6
Cruelty	*1,271*	*307*	*964*	*51.9*	*47.5*	*53.5*
Cruelty (sole cause alleged)	881	270	611	36.0	41.8	33.9
Cruelty (with other causes)	390	37	353	15.9	5.7	19.6
Desertion	*747*	*298*	*454*	*30.5*	*45.4*	*25.2*
Desertion (sole cause alleged)	562	262	300	23.0	40.6	16.6
Desertion (with other causes)	185	31	154	7.6	4.8	8.5
Drunkenness	*111*	*7*	*104*	*4.5*	*1.1*	*5.8*
Drunkenness (sole cause alleged)	33	4	29	1.3	0.6	1.6
Drunkenness (with other causes)	78	3	75	3.2	0.5	4.2
Nonsupport	*731*	*7*	*724*	*29.9*	*1.1*	*40.2*
Nonsupport (sole cause alleged)	328	1	327	13.4	0.2	18.1
Nonsupport (with other causes)	403	6	397	16.5	0.9	22.0

PART V.—BIRTHS IN MICHIGAN DURING THE YEAR 1901.

The number of births in Michigan during the year 1901 according to the returns received from the county clerks, was 43,221, a decrease of 478 births, as compared with the returns of the preceding year. The birth rate for 1901 was 17.6 per 1,000 estimated population. This rate includes stillbirths and may be compared with the rates given in Table 2, page xi, from which it appears that it is lower than the birth rate of any previous year of registration in the State, with the single exception of 1899, which had the particularly low rate of 17.5.

If these statistics are of any value whatever as indicating the number of children born in the State, it would certainly seem that there has been a considerable decrease in the fecundity of the population.

The rate of living births per 1,000 population is shown in Table 2 to be 17.5. This is exclusive of 451 stillbirths returned in births, but for 1901, as for the two preceding years, the stillbirths returned in deaths are not compared with nor added to the stillbirths returned in births, as was customary during the years 1874-97, inclusive, when both births and deaths were returned under the same general law.

As will be noted by examination of Table 2, there were 1,501 stillbirths registered in deaths, or 1,050 more than were returned with births under the old law.

SUMMARY OF THE ENUMERATION OF BIRTHS FOR THE YEAR 1901.

The following statements include the more important features of the enumeration of births in Michigan for the year 1901:

Total number of births returned, 1901	43,221
Birth rate per 1,000 population, 1901	17.6

Exclusive of stillbirths, there were:

Children born alive, 1901	42,770
Children born alive per 1,000 population, 1901	17.5

Compared with the previous year, we have:

Decrease of births returned for 1901 (43,221) from number returned for 1900 (43,699)	488

The following is the distribution of births returned according to sex:

Male children born, 1901	22,279
Female children born, 1901	20,838
Sex unknown or unspecified (33 of these stillborn)	104
Males born per 100 births of females	107

The parent nativity of children born in 1901, exclusive of births to parents of different nativities, may be stated:

Born of parents both of native birth, 1901	20,336
Born of parents both of foreign birth, 1901	13,563

The reported rate of illegitimacy is low for Michigan. In 1901 there were returned:

Illegitimate births (males, 173; females, 173)	346
Illegitimate births per 1,000 births, 1901	8.0

Table 54.—Births returned, by months, for the years 1892-1901 inclusive, with average for the ten-year period. (Stillbirths included.)

Years.	Total for year.	Months.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1892	46,221	*3,226*	3,315	3,745	3,928	3,977	3,681	3,929	4,168	4,088	3,918	3,853	**4,344**	49
1893	47,722	*3,346*	3,391	4,069	3,934	3,924	3,901	4,158	**4,351**	4,246	4,165	3,916	4,263	58
1894	44,596	*2,889*	3,020	3,854	3,896	3,866	3,735	3,917	3,981	3,778	3,750	3,684	**4,204**	22
1895	46,273	*3,204*	3,240	3,827	3,742	4,022	3,745	3,989	**4,346**	4,214	3,997	3,750	4,159	38
1896	46,302	3,322	*3,184*	3,781	3,862	3,918	3,697	3,879	**4,405**	4,208	3,994	3,842	4,155	55
1897	43,688	3,295	*3,207*	3,777	3,654	3,794	3,423	3,739	**3,863**	3,853	3,717	3,571	3,767	28
1898	43,462	*3,043*	3,173	3,856	3,534	3,724	3,554	3,612	3,894	3,807	3,801	3,492	**3,920**	52
1899	41,818	*3,099*	3,134	3,681	3,652	3,494	3,199	3,633	**3,785**	3,758	3,454	3,262	3,636	31
1900	43,699	*3,069*	3,105	3,821	3,930	3,755	3,501	3,777	**3,983**	3,880	3,658	3,415	3,762	43
1901	43,221	*2,974*	3,087	3,782	3,682	3,594	3,492	3,745	3,926	**3,953**	3,633	3,438	3,881	34
Av. 1892-1901	44,700	3,147	3,186	3,819	3,781	3,807	3,593	3,838	4,070	3,979	3,809	3,622	4,009	41

Maxima in **bold face**; minima in *italics*.

Table 55.—Parent nativity of children born in Michigan, during 1901. (Stillbirths included.)

Nativity of parents of children born, 1901.	Number of births, 1901.				Per cent of total.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
All nativities	43,221	22,279	20,838	104	100.0	100.0	100.0	100.0
Both parents native born	20,336	10,429	9,875	32	47.1	46.8	47.4	30.8
Both parents foreign born	13,563	7,061	6,489	13	31.4	31.7	31.1	12.5
Foreign father and native mother	5,270	2,712	2,550	8	12.2	12.2	12.2	7.7
Foreign mother and native father	3,193	1,648	1,540	5	7.4	7.4	7.4	4.8
Unknown mother, father native	116	61	55	.....	0.3	0.3	0.3	.....
Unknown mother, father foreign	51	29	21	1	0.1	0.1	0.1	1.0
Unknown father, mother native	178	84	91	3	0.4	0.4	0.4	2.9
Unknown father, mother foreign	38	16	22	.....	0.1	0.1	0.1	.....
Both unknown	476	239	195	42	1.1	1.1	0.9	40.4
One or both native	29,093	14,934	14,111	48	67.3	34.6	32.6	0.1
One or both foreign	22,115	11,466	10,622	27	51.2	26.5	24.6	0.1

Table 56.—Parent nativity of children born in Michigan for each of the years 1892-1901, inclusive; with average for the ten-year period. (Stillbirths included.)

Years.	Nativity of parents of children,—per cent of total.												
	Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	One or both unknown.	Father—			Mother—			One or both parents native born.*	One or both parents foreign born.*
						Native.	Foreign.	Unknown.	Native.	Foreign.	Unknown.		
1892	39.7	39.7	10.9	6.3	3.3	46.7	51.0	2.3	51.3	46.2	2.5	58.2	57.5
1893	41.1	38.5	11.0	6.6	2.9	48.0	50.0	2.1	52.6	45.3	2.1	59.5	56.7
1894	43.0	35.6	11.4	6.8	3.3	50.4	47.9	1.7	54.9	42.5	2.6	62.3	54.8
1895	43.4	35.5	11.3	6.8	3.0	50.7	47.0	2.2	55.3	42.5	2.2	62.6	54.1
1896	43.0	35.5	11.8	6.8	3.0	50.0	47.5	2.5	55.8	42.5	2.3	62.3	54.5
1897	43.6	34.3	11.7	7.2	3.0	51.2	46.2	2.6	55.9	41.8	2.4	63.3	53.6
1898	44.8	32.9	12.0	7.3	3.0	52.4	45.2	2.4	57.5	40.6	2.0	65.1	52.8
1899	44.3	33.4	12.0	7.5	2.9	52.0	45.6	2.4	56.8	41.0	2.2	64.5	53.2
1900	45.6	32.5	12.1	7.3	2.5	53.2	44.7	2.0	58.1	39.9	2.0	65.7	52.0
1901	47.1	31.4	12.2	7.4	1.1	54.7	43.7	1.6	59.7	38.9	1.5	67.3	51.2
Average, 1892-1901	43.6	34.9	11.6	7.0	2.8	50.9	46.9	2.2	55.7	42.1	2.2	63.1	54.0

* Including cases where nativity of either parent is unknown.

Table 57.—Parent nativity of children born in Michigan during the year 1901, compared with averages for six quinquennial periods, 1871-1900. (Stillbirths included.)

Years and periods averaged.	Nativity of parents,—Per cent of total.				
	Both native born.	Both foreign born.	Foreign father and native mother.	Native father and foreign mother.	One or both unknown.
Average, 1871-75	44.8	34.3	9.5	5.2	6.2
Average, 1876-80	46.0	34.1	11.0	5.7	3.1
Average, 1881-85	43.7	35.5	11.5	6.2	2.8
Average, 1886-90	42.7	37.6	10.7	6.2	2.1
Average, 1891-95	41.5	37.8	11.1	6.5	3.1
Average, 1896-1900	44.3	33.7	11.9	7.2	2.9
Year 1901	47.1	31.4	12.2	7.4	1.1

CLIMATOLOGICAL DATA FOR MICHIGAN, 1901.

The following data relating to the meteorological conditions in Michigan for the year 1901 have been kindly supplied to this Department by Mr. C. F. Schneider, Director of the Michigan State Weather Service, in co-operation with the Climate and Crop Service of the Weather Bureau, U. S. Department of Agriculture. Fuller details may be found in the annual report of the State Weather Service for the year, but the data herewith presented will be found convenient for comparing with the mortality statistics contained in this report.

In connection with the text and tables on this subject, two maps are presented, reduced from those which appeared in the publication of the Weather Service, and showing the annual mean isotherms and prevailing winds (Map I), and the amount of precipitation in various parts of the State (Map II). It will be observed that the very important data contained in Table 60 are arranged according to the same geographical sections employed in the study of causes of death, thus making the comparison of mortality statistics and meteorological data very convenient.

In Table 58 the temperature and amount of precipitation for the year are compared with the years 1888-1900, both inclusive, this period extending back to the formation of the State Weather Service. The average of the statistics for these years constitutes the "normal" which is used as a basis of reference in making comparisons of the meteorology of the current year.

REVIEW OF THE YEAR, 1901.

Annual Temperature.—The mean annual temperature for 1901 was 44.6 degrees, or 0.6 of a degree below the normal, which is computed by averaging the yearly mean temperatures of the 13 preceding years. February was the coldest month of the year and its mean temperature also shows the greatest departure from the normal—a deficiency of 5.7 degrees; the mean temperature of February, 14.2 degrees, was only 0.1 of a degree higher than the coldest February on record.

July was the warmest month of the year, and also much warmer than usual, its mean temperature, 72.8 degrees, being 4.3 in excess of the normal, making it the warmest July on record since 1887 when the mean temperature was 74.0 degrees.

Altogether the mean temperature of five months were below the normal; the other seven were above; the winter months had the greatest deficiency of the temperature and the summer months the greatest excess, so that it may be said the winter of 1901 was comparatively cold while the summer was comparatively hot.

The highest temperature of the year, 108 degrees, occurred on July 15 at Marquette; the lowest, —28 degrees, occurred on January 3 and December 21 at Humboldt.

Annual Precipitation.—The annual mean total precipitation was 28.06 inches, or 2.72 inches below the normal and 4.25 inches less than fell in

1900. The greatest monthly average, 4.20 inches, occurred in July. The least monthly average, 1.34 inches, occurred in April.

The year on the whole was deficient in precipitation at the most inopportune times—during planting and seeding in April, May and June and during the latter part of October and most of November, when more moisture was needed for the germination of winter wheat and rye.

MAP I.—ANNUAL MEAN ISOTHERMS AND PREVAILING WINDS IN MICHIGAN, 1901.

Altogether there was an excess of precipitation during 4 months—March, July, October and December, and a deficiencey during the other eight months.

January.—The mean temperature was 21.4 degrees, or 0.1 of a degree below the normal. The highest temperature was 55 degrees on the 20th at Traverse City; the lowest was —28 on the 3d at Humboldt.

The average total precipitation was 1.77 inches, or 0.52 of an inch below the normal. The greatest monthly amount was 5.40 inches at Berrien Springs; the least monthly amount was 0.65 of an inch at Port Austin.

January weather was mostly favorable to winter wheat, which was covered with snow most of the month; at the close of the month its general condition was uneven and rather poor.

February.—The mean temperature was 14.2 degrees, or 5.7 degrees below the normal. The highest temperature was 44 degrees on the 28th at Houghton and Baraga; the lowest was —26 degrees on the 3d at Humboldt.

MAP II.—TOTAL PRECIPITATION IN MICHIGAN, 1901.

The average total precipitation was 1.39 inches, or 0.57 of an inch below the normal. The greatest monthly amount was 4.60 inches at Berrien Springs; the least monthly amount was 0.00 at Thomaston.

Winter wheat was well protected during the entire month by snow and not subjected to any alternate thawing and freezing. At the close of the month its condition could not be determined on account of snow, but was supposed to be fairly good.

March.—The mean temperature was 28.0 degrees, or 0.8 of a degree above the normal. The highest temperature was 72 degrees on the 25th at Adrian; the lowest was —20 degrees on the 3d at Lake City and on the 6th at Humboldt.

The average total precipitation was 2.65 inches, or 0.31 of an inch above the normal. The greatest monthly amount was 5.32 inches at Charlevoix; the least monthly amount was 0.68 of an inch at Eagle Harbor.

Warm rains during the latter part of month carried away snow in Central and Southern Counties and caused very high water in Lower Peninsula streams and lakes which flooded many cities and villages, doing great damage.

Frost in Southern Counties was mostly out of ground at close of month but soil was too wet for plowing; sugar making was in progress and some clover seeding begun; condition of winter wheat was very uneven, some being reported good while other fields are very poor. Considerable snow still remained on ground in Northern Counties and Upper Peninsula.

April.—The mean temperature was 44.4 degrees, or 0.9 of a degree above the normal. The highest temperature was 88 degrees on the 27th at Houghton; the lowest was 0 on the 1st at Thomaston.

The average total precipitation was 1.34 inches, or 0.71 of an inch below the normal. The greatest monthly amount was 3.30 inches at Arbela; the least monthly amount was 0.10 of an inch at Ewen.

The advance of the season was quite steady and equable during April; the early part of the month was dry, but sufficient rainfall occurred during the period extending from the 16th to the 24th to generally benefit wheat, rye, clover, meadows, pastures and plowing. At the close of the month all fruit buds were in excellent condition, not having been forced by any early warm waves, and promised abundant yields; oat seeding was well advanced and plowing for corn, beans and potatoes was general.

May.—The mean temperature was 54.2 degrees, or 0.5 of a degree below the normal. The highest temperature was 90 degrees on the 8th at Ewen; the lowest was 18 degrees on the 15th at Gaylord.

The average total precipitation was 2.47 inches, or 0.70 of an inch below the normal. The greatest monthly amount was 5.65 inches at Fitchburg; the least monthly amount was 0.40 of an inch at Ontonagon.

May was generally an unfavorable month for much crop growth and especially for the germination of spring seeding. There were no wide departures from either normal temperature or normal precipitation, but the month was practically devoid of any hot spells, which are so valuable in seed germination, while the nights were almost uniformly cool. Corn has suffered most, some seed rotting and much of it taking from 10 to 14 days to germinate.

June.—The mean temperature was 66.0 degrees, or 1.5 degrees above the normal. The highest temperature was 102 degrees on the 26th and 27th at Traverse City; the lowest was 22 degrees on the 1st, 3d and 9th at Ludington.

The average total precipitation was 2.51 degrees, or 0.72 of an inch below the normal. The greatest monthly amount was 6.93 inches at Calumet; the least monthly amount was a trace at Lake City.

The first half of the month was cool and retarded the germination and growth of corn, sugar beets, oats and garden truck, although favorable for wheat, rye and grass. During the latter half the temperature was above the normal and much more favorable for spring seeding. The precipitation was generally ample for most crops. High winds and frosts during the first decade did some damage to fruit. Frosts also injured some early sown potatoes, but the damage was not serious or general.

July.—The mean temperature was 72.8 degrees, or 4.3 degrees above the normal. The highest temperature was 108 degrees on the 15th at Marquette; the lowest was 29 degrees on the 7th at Humboldt.

The average total precipitation was 4.20 inches, or 1.22 inches above the normal. The greatest monthly amount was 10.40 inches at Iron River; the least monthly amount was 1.32 inches at Fennville.

The month was characterized by high temperatures and, in many counties, by heavy rainfall. Most crops have made good growth and hay, wheat and rye were generally well secured. Hot and dry weather prevailed during the second decade, greatly shortening the berry and early potato crops. Corn, sugar beets, beans and late potatoes have made fine progress during the month and were in a very promising condition. In the extreme southwestern portion of the Lower Peninsula the conditions have been unfavorable to oats, which matured on a short straw and were mostly harvested by close of month.

August.—The mean temperature was 67.9 degrees, or 0.3 of a degree above the normal. The highest temperature was 96 degrees on the 15th at Stanton and on the 9th at Grape; the lowest was 29 degrees on the 31st at Thomaston.

The average total precipitation was 2.52 inches, or 0.10 of an inch below the normal. The greatest monthly amount was 6.46 inches at Mackinaw City; the least monthly amount was 0.42 of an inch at Grand Haven.

The month as a whole was favorable, and with the exception of a small area in southwestern Michigan all crops made good progress during the month. The first half of the month was quite dry and slightly delayed fall plowing; the rains which fell after the 17th greatly revived pasturage and improved the soil for plowing. At the close of the month all outstanding crops, principally corn, late potatoes, sugar beets and beans, were in promising condition.

September.—The mean temperature was 60.5 degrees, or 0.1 of a degree above the normal. The highest temperature was 95 degrees on the 6th at Alma and on the 7th at Jackson; the lowest was 20 degrees on the 18th at Humboldt.

The average total precipitation was 2.13 inches, or 0.74 of an inch below the normal. The greatest monthly amount was 5.90 inches at Mancelona; the least monthly amount was 0.23 of an inch at Bay City.

Generally, the weather conditions during September were very favorable to the maturity of late crops, but not so favorable for field work. The wet and cool weather extending throughout most of the second decade of the month delayed the maturity of sugar beets and late potatoes and the harvesting of late beans and other field work, but the much drier and warmer weather of the last decade was very beneficial. At the close of the month corn, late beans and buckwheat had been mostly secured in good condition; the corn crop was an exceptionally good one. Late potatoes had improved considerably and indicated a fair yield, while sugar beets were very promising. Fall plowing was nearly completed and wheat and rye seeding in the Northern and Central counties well advanced; in the Southern counties very little seeding had been done, this work being delayed as much as possible in that section to avoid the ravages of the Hessian fly.

October.—The mean temperature was 49.6 degrees, or 0.1 of a degree above the normal. The highest temperature was 86 degrees on the 30th at Cheboygan and Mio and on the 31st at South Haven; the lowest was 7 degrees on the 18th at Humboldt.

The average total precipitation was 3.24 inches, or 0.42 of an inch above the normal. The greatest monthly amount was 7.77 inches at Whitefish Point; the least monthly amount was 0.70 of an inch at Birmingham.

The weather conditions during October were generally favorable to field operations and in most counties sufficient rain had fallen to nicely germinate winter wheat and rye. Corn husking and potato digging advanced rapidly during the entire month; corn and sugar beets were generally good crops, but late potato yields were only fair. Farmers, as a rule had been sowing their wheat and rye much later than usual and consequently very little complaint of the Hessian fly had been heard at the close of the month because wheat had hardly advanced far enough to enable the fly to begin its work.

November.—The mean temperature was 33.5 degrees, or 1.7 degrees below the normal. The highest temperature was 70 degrees on the 11th at Plymouth; the lowest was —4 on the 5th at Humboldt.

The average total precipitation was 1.36 inches, or 1.45 inches below the normal. The greatest monthly amount was 4.72 inches at Lathrop; the least monthly amount was 0.10 of an inch at Lincoln.

The weather conditions during November were too dry for the best growth of winter wheat, which at the end of the month was small, but healthy and well colored. The lack of precipitation dried up pastures quite rapidly so that farmers were obliged to feed their stock; the dry conditions, however, were very favorable for corn husking and the delivery of sugar beets to the factories. Wheat seeding has averaged later than ever before, the late seeding being done to avoid the Hessian fly; early winter wheat has some fly in it, but the later seeding seemed to be affected very little.

December.—The mean temperature was 22.3 degrees, or 3.5 degrees below the normal. The highest temperature was 62 degrees on the 1st at Grape; the lowest was —18 degrees on the 21st at Humboldt.

The average total precipitation was 2.48 inches, or 0.46 of an inch above the normal. The greatest monthly amount was 5.95 inches at Lathrop; the least monthly amount was 0.20 of an inch at Humboldt.

At the close of the month winter wheat looked generally strong and healthy, but it had rather a small top, little or no growth having been made since the close of November. It has been generally well protected with a snow blanket during and after the cold wave of the 14th to 22d. Although there was some complaint of Hessian fly much less of this pest was reported than during the two preceding years, which was probably due to the fact that winter wheat was generally sown considerably later this year than usual.

Table 58.—Temperature and amount of precipitation in Michigan during the year 1901, compared with previous years.

Year.	Temperature.					Average yearly precipitation (inches).	Average total snowfall (inches).
	Yearly mean.	Highest.	Date.	Lowest.	Date.		
1888.....	43.8	102	June 17.....	—36	January 21..... February 9.....	28.68	67.9
1889.....	45.3	102	July 8.....	—33	February 24.....	26.86	57.7
1890.....	45.6	104	August 3.....	—35	March 6.....	34.23	44.6
1891.....	46.2	103	August 8.....	—28	February 4.....	30.65	42.8
1892.....	44.6	101	July 26.....	—26	January 20.....	33.69	50.1
1893.....	43.6	100	June 20..... July 13..... August 10.....	—31	January 15.....	34.55	81.2
1894.....	46.8	102	July 27.....	—31	February 24.....	28.00	45.3
1895.....	44.6	101	July 7.....	—38	February 6.....	26.90	71.4
1896.....	45.8	100	June 6.....	- 29	February 17.....	31.74	42.8
1897.....	44.9	104	July 19.....	—43	February 26.....	31.23	57.0
1898.....	46.0	101	July 24..... August 23.....	—35	December 31.....	32.29	61.5
1899.....	44.9	100	July 24..... August 19-20.....	—49	February 7.....	28.99	48.8
1900.....	46.0	100	August 4-5.....	—38	February 25-26....	32.31	59.8
Normal..	45.2	102	July 23.....	—35	February 9.....	30.78	56.2
1901.....	44.6	108	July 15.....	—28	Jan. 3, Dec. 21....	28.06	60.6

Table 59.—Relative humidity, wind movement and atmospheric pressure in Michigan during the year 1901.

Year and months, 1901.	Mean relative humidity (per cent).	Wind movement (in miles).			Atmospheric pressure reduced to 32° and sea level.					
		Average total movement.	Average hourly velocity.	Highest velocity with direction from and date.	Mean.	Highest	Date.	Lowest.	Date.	Absolute range.
Year, 1901...	79	7,308	10.0	68-s w-July 2	30.01	30.74	Jan. 3	28.96	Mar. 3	1.78
January.....	87	8,492	11.4	50—w—16	30.01	30.74	3	29.03	16	1.71
February....	86	6,935	10.3	36—n—4	30.05	30.64	12	29.55	17, 24	1.09
March.....	83	9,528	12.8	62—w—3	29 90	30.32	29	28.96	3	1.36
April.....	70	6,944	9.7	52—n e—20	30.15	30.62	10	29.46	5	1.16
May.....	76	7,047	9 5	44—w—12	29.92	30.56	25	29.54	12	1.02
June.....	75	6,094	8.5	44—w—25	29.93	30.27	8	29.46	28	0.81
July.....	74	6,565	8.8	68-s w—2	29.94	30.24	13	29.55	6	0.69
August.....	77	5,790	7.8	41 n w—29	30.00	30.30	31	29.66	9	0.64
September..	78	7,034	9.8	45—s w—15	30.02	30.52	25	29.25	15	1.27
October.....	77	7,806	10 5	56—s—12	30.06	30.50	7	29.24	13	1.26
November..	81	8,298	11.5	41—n w—14	30.10	30.58	27	29.43	11	1.15
December...	86	7,161	9.6	54—n w—31	30.03	30.44	21, 31	29.29	22	1.15

Table 100. Temperature, precipitation, sky and direction of wind in Michigan for the State and meteorological sections, 1901.

Stations.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.			
	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Number of days with precipitation.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing direction of wind.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table 60.—Concluded.—Temperature, precipitation, sky and direction of wind in Michigan for the State and geographical sections, 1901.

Year and months by geographical sections.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.					Sky.			Prevailing direction of wind.
	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Number of days with precipitation.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	
Year, 1901—III. CENTRAL CO'S.	45.5	−0.6	101	July 1	−15	Feb. 14	61	24.42	−4.70	4.70	39.3	80	129	111	125	s w
January	22.3	−1.1	48	8	−12	19	50	1.51	−1.01	0.66	12.4	9	7	7	17	n w
February	15.0	−5.3	35	18-25	−15	14	45	1.27	−0.70	1.20	12.8	6	8	8	12	n w
March	29.3	+1.0	69	7	−8	5	61	2.48	+0.10	2.05	5.5	8	8	8	15	s w
April	45.7	+0.5	86	30	17	1-19	56	1.51	−0.53	1.75	1.6	5	14	8	8	n e
May	55.0	−1.2	87	2	20	13-15	55	2.13	−0.88	1.52	T	9	8	12	11	n e
June	67.4	+1.6	98	25-27	28	9	52	1.66	−0.71	1.43	0	6	17	10	3	s w
July	74.8	+5.0	101	1	40	14	55	4.41	+1.58	4.70	0	10	15	12	4	s w
August	67.8	−0.7	96	15	38	14-21	50	2.45	−0.04	2.10	0	6	15	9	7	s w
September	61.2	−0.1	95	6	25	18	51	1.67	−0.82	1.55	0	5	13	8	9	s w
October	50.4	−0.1	88	4	18	19	50	2.47	−0.33	2.00	T	5	13	10	8	s w
November	34.0	−3.0	68	1	8	28	42	0.91	−1.58	0.86	0.8	5	5	10	15	n w
December	23.2	−4.0	58	1	−10	19-21	38	1.95	+0.22	1.22	6.2	6	6	9	16	s w
Year, 1901—IV. SOUTHERN CO'S.	46.9	−0.7	104	July 21	−22	Feb. 14	48	27.85	−3.54	5.30	46.8	94	130	108	127	s w
January	24.3	−0.5	54	9-20	−13	3	54	1.87	−0.38	1.02	13.1	11	6	7	18	n w-s w
February	15.5	−7.7	41	25	−22	14	47	1.80	−0.48	1.80	18.2	9	7	11	10	w
March	32.2	+1.1	72	25	−7	6	42	2.47	−0.09	1.67	3.9	11	7	8	16	s w
April	46.1	−0.4	86	29-30	18	1	54	1.69	−0.39	1.34	1.3	6	12	7	11	n e
May	56.0	−1.6	87	2	27	15	56	2.65	−0.89	1.85	T	10	9	11	11	n e
June	68.4	−0.8	98	24-25-28-30	31	9	45	2.62	−0.60	2.45	0	8	14	12	4	s w
July	76.2	+4.6	104	21	40	8	49	3.63	+0.77	3.68	0	9	17	10	4	s w
August	70.1	+0.5	96	9	35	31	45	2.27	−0.13	3.19	0	6	14	9	8	n w
September	62.9	+0.3	95	7	28	18-19	47	1.39	−0.99	1.50	T	5	14	9	7	s w
October	51.9	+0.7	85	1	22	17-18	56	3.24	+0.63	5.30	T	6	15	9	7	s w
November	35.6	−1.8	70	11	7	27	42	1.24	−1.84	1.16	1.0	6	7	8	15	n w
December	23.8	−4.2	62	1	−19	21	42	2.98	−0.85	2.32	9.3	7	8	7	16	s w

TABLES

RELATING TO

DEATHS

AND

CAUSES OF DEATH

IN

MICHIGAN

DURING THE

YEAR 1901.

PRIMARY TABLES RELATING TO DEATHS AND CAUSES OF DEATH IN MICHIGAN DURING THE YEAR 1901.

TABLE I.—Deaths in Michigan, by months, counties and sex, during the year 1901. (Stillbirths excluded.)

TABLE II.—Deaths in Michigan, by ages, counties and sex, during the year 1901. (Stillbirths excluded.)

TABLE III.—Causes of death in Michigan, by months, ages and sex, during the year 1901. (Stillbirths excluded.)

TABLE IV.—Causes of death in Michigan, by counties, during the year 1901. (Stillbirths excluded.)

NOTE.—*Secondary tables*, containing death rates and other ratios, and *comparative tables*, displaying the mortality of Michigan for the year 1901 in connection with previous years and other States and countries, may be found on preceding pages of this Report, together with the descriptive text.

TABLE I.—Deaths in Michigan by months, counties and sex, during the year 1901. (Stillbirths excluded.)

State and counties.	Sex.	Year, 1901.	Months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
STATE....	Totals.	32,834	3,128	3,089	3,390	2,894	2,720	2,354	2,395	2,573	2,847	2,435	2,354	2,655
	Males..	17,540	1,642	1,611	1,741	1,508	1,446	1,271	1,364	1,393	1,560	1,327	1,250	1,427
	Fem...	15,273	1,486	1,478	1,647	1,386	1,274	1,082	1,031	1,178	1,286	1,108	1,091	1,226
	Unk....	21	.....	.....	2	.....	.....	1	.....	2	1	.....	13	2
Alcona.....	Totals.	63	6	8	7	6	7	7	1	.....	5	2	7	7
	Males..	34	3	4	4	5	3	3	1	.....	3	2	3	3
	Fem...	29	3	4	3	1	4	4	.....	.....	2	.....	4	4
Alger.....	Totals.	48	4	1	6	5	3	4	4	3	5	3	5	5
	Males.	33	4	1	5	1	3	2	3	1	3	3	2	5
	Fem...	14	.....	.....	1	4	.....	2	1	1	2	.....	3	.....
	Unk....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
Allegan....	Totals.	496	44	47	48	51	39	40	36	37	36	37	50	31
	Males..	282	27	28	22	25	27	19	24	22	20	23	27	18
	Fem...	214	17	19	26	26	12	21	12	15	16	14	23	13
Alpena.....	Totals.	210	28	20	16	20	13	17	12	18	18	15	8	25
	Males..	113	14	14	7	8	7	10	2	9	11	10	5	16
	Fem...	97	14	6	9	12	6	7	10	9	7	5	3	9
Antrim.....	Totals.	209	18	24	28	10	20	10	12	19	28	19	13	8
	Males..	108	10	15	13	3	13	7	8	8	12	12	4	3
	Fem...	101	8	9	15	7	7	3	4	11	16	7	9	5
Arenac....	Totals.	120	11	17	19	14	6	7	8	9	6	12	1	10
	Males.	67	7	9	12	9		3	4	7	3	5	1	6
	Fem...	53	4	8	7	5	5	4	4	2	3	7	.....	4
Baraga.....	Totals.	60	1	8	5	2	4	6	8	6	5	5	5	5
	Males..	36	1	5	4	1	2	3	5	4	3	2	2	4
	Fem...	24	.....	3	1	1	2	3	3	2	2	3	3	1
Barry.....	Totals.	267	17	37	22	27	29	20	16	21	16	18	19	25
	Males..	137	13	24	8	16	19	13	5	7	4	12	5	11
	Fem...	130	4	13	14	11	10	7	11	14	12	6	14	14
Bay.....	Totals.	782	72	94	73	68	76	51	40	69	70	64	42	63
	Males.	380	38	43	33	36	31	25	23	32	33	33	22	31
	Fem..	402	34	51	40	32	45	26	17	37	37	31	20	32
Benzie.....	Totals.	136	8	13	17	15	10	14	4	14	17	9	7	8
	Males..	65	3	8	6	7	4	10	1	7	8	3	5	3
	Fem...	71	5	5	11	8	6	4	3	7	9	6	2	5
Berrien.....	Totals.	659	65	48	70	65	65	65	37	50	56	43	42	53
	Males..	367	32	24	43	33	36	38	28	22	33	31	23	24
	Fem...	292	33	24	27	32	29	27	9	28	23	12	19	29
Branch.....	Totals.	381	41	46	46	25	38	27	36	19	33	23	28	19
	Males..	195	22	24	15	12	15	15	24	8	23	12	11	14
	Fem...	186	19	22	31	13	23	12	12	11	10	11	17	5
Calhoun....	Totals.	736	66	97	87	54	58	47	52	49	65	48	49	64
	Males..	351	30	44	39	30	33	19	17	25	37	22	25	30
	Fem...	385	36	53	48	24	25	28	35	24	28	26	24	34
Cass.....	Totals.	269	32	23	21	25	23	24	24	18	21	18	17	23
	Males..	140	19	7	11	16	12	11	14	8	9	11	10	12
	Fem...	128	13	16	10	9	11	13	10	10	12	7	6	11
	Unk....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
Charlevoix.	Totals.	176	19	15	15	13	14	7	13	22	21	11	10	16
	Males..	109	10	10	9	7	7	6	12	13	16	6	4	9
	Fem...	67	9	5	6	6	7	1	1	9	5	5	6	7
Cheboygan	Totals.	201	23	29	9	14	21	12	16	15	20	10	15	17
	Males..	107	9	16	5	6	13	7	9	5	12	5	9	11
	Fem...	94	14	13	4	8	8	5	7	10	8	5	6	6

TABLE I.—Continued.—Deaths in Michigan, by months, counties and sex, 1901.

Counties.	Sex.	Year, 1901.	Months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	De-
Chippewa....	Totals.	313	17	32	15	25	13	30	23	38	48	15	24	
	Males..	174	10	18	9	11	9	17	13	24	24	9	17	
	Fem...	139	7	14	6	14	4	13	10	14	24	6	7	
Clare.....	Totals.	90	9	6	8	13	10	6	8	5	8	4	3	
	Males..	49	6	2	6	6	6	3	3	3	7	2	1	
	Fem...	41	3	4	2	7	4	3	5	2	1	2	2	
Clinton.....	Totals.	337	34	30	37	37	31	36	22	18	21	23	25	
	Males..	167	13	13	22	18	14	22	13	10	9	8	14	
	Fem...	170	21	17	15	19	17	14	9	8	12	15	11	
Crawford....	Totals.	26	2	1	2	5	.....	2	1	2	7	1	3	....
	Males..	15	1	.....	2	.....	.....	1	1	2	4	1	3	....
	Fem...	11	1	1	.....	5	.....	1	.....	.....	3	.....	.....	....
Delta.....	Totals.	297	21	28	31	28	35	15	21	31	26	18	22	
	Males..	165	11	18	14	14	24	8	13	20	14	11	9	
	Fem...	132	10	10	17	14	11	7	8	11	12	7	13	
Dickinson....	Totals.	253	24	19	19	22	23	24	20	29	22	25	19	
	Males..	163	14	9	10	15	15	16	16	18	13	16	14	
	Fem...	90	10	10	9	7	8	8	4	11	9	9	5	....
Eaton.....	Totals.	403	36	39	45	33	31	33	32	35	25	28	29	
	Males .	221	18	17	25	18	17	20	19	20	12	17	19	
	Fem...	181	18	22	19	15	14	13	13	15	13	11	10	
	Unk....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	....
Emmet.....	Totals.	214	21	23	13	17	11	14	17	23	23	18	20	
	Males .	109	6	10	9	9	3	8	6	16	12	10	13	
	Fem...	105	15	13	4	8	8	6	11	7	11	8	7	
Genesee.....	Totals.	572	61	53	66	52	41	51	38	36	42	41	37	
	Males..	307	31	23	37	25	26	29	24	13	22	24	19	
	Fem...	265	30	30	29	27	15	22	14	23	20	17	18	
Gladwin.....	Totals.	63	3	8	4	3	4	7	2	6	11	4	3	
	Males..	39	3	5	3	3	1	1	2	6	7	2	2	
	Fem...	24	.....	3	1	.....	3	6	.....	.....	4	2	1	
Gogebic.....	Totals.	257	31	18	14	17	25	25	24	27	15	18	20	
	Males..	149	19	10	7	8	16	18	19	13	7	11	11	
	Fem...	108	12	8	7	9	9	7	5	14	8	7	9	
G'd Traverse	Totals.	342	38	30	39	42	23	27	22	18	35	20	20	
	Males..	190	20	16	21	24	9	21	12	11	14	12	13	
	Fem...	152	18	14	18	18	14	6	10	7	21	8	7	
Gratiot.....	Totals.	361	41	28	39	33	28	23	25	26	31	29	24	
	Males..	188	21	16	21	12	16	12	13	9	12	22	11	
	Fem...	173	20	12	18	21	12	11	12	17	19	7	13	
Hillsdale.....	Totals.	422	32	41	43	40	43	37	32	29	32	39	24	
	Males..	216	16	25	19	16	18	20	19	20	13	16	13	
	Fem...	206	16	16	24	24	25	17	13	9	19	23	11	
Houghton. ..	Totals.	892	75	78	89	68	77	61	59	99	98	74	67	
	Males .	524	42	48	51	41	43	28	38	68	55	42	40	
	Fem...	368	33	30	38	27	34	33	21	31	43	32	27	
Huron.....	Totals.	373	44	38	48	23	27	23	25	34	31	18	31	
	Males..	192	26	23	19	14	10	10	12	16	19	9	16	
	Fem...	180	18	15	29	9	17	13	13	17	12	9	15	
	Unk....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	...
Ingham	Totals.	512	51	56	69	51	60	28	33	36	51	31	27	
	Males..	272	26	26	34	25	29	13	21	22	26	16	15	
	Fem...	270	25	30	35	26	31	15	12	14	25	15	12	
Ionia.....	Totals.	464	43	35	48	38	33	29	36	30	43	46	35	
	Males..	235	27	16	18	23	12	18	24	16	28	18	17	
	Fem...	228	16	19	30	15	21	10	12	14	15	28	18	
	Unk....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	...

TABLE I.—Continued.—Deaths in Michigan, by months, counties and sex, 1901.

Counties.	Sex.	Year, 1901.	Months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Iosco	Totals.	135	6	6	20	14	27	10	12	8	12	13	2	5
	Males.	75	2	4	13	4	21	6	6	2	6	6	1	4
	Fem.	60	4	2	7	10	6	4	6	6	6	7	1	1
Iron	Totals.	105	10	6	2	7	4	6	7	18	13	11	11	10
	Males.	56	7	1	2	3	2	4	5	8	9	6	3	6
	Fem.	49	3	5	.....	4	2	2	2	10	4	5	8	4
Isabella	Totals.	243	25	20	20	24	25	17	18	16	32	13	11	22
	Males.	127	7	11	9	9	10	14	7	7	21	10	10	12
	Fem.	115	18	9	11	15	15	3	11	9	11	3	1	9
	Unk.	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Jackson	Totals.	615	77	54	74	53	41	44	46	48	54	47	32	45
	Males.	305	34	25	31	25	25	27	28	26	25	22	16	21
	Fem.	310	43	29	43	28	16	17	18	22	29	25	16	24
Kalamazoo	Totals.	740	60	74	88	63	58	42	45	70	86	49	46	59
	Males.	376	30	31	54	34	37	17	25	30	41	26	19	32
	Fem.	364	30	43	34	29	21	25	20	40	45	23	27	27
Kalkaska	Totals.	88	8	6	13	3	14	10	4	4	9	2	12	3
	Males.	50	4	2	8	1	10	5	2	4	5	1	6	2
	Fem.	38	4	4	5	2	4	5	2	.....	4	1	6	1
Kent	Totals.	1,769	179	156	233	145	144	128	115	111	135	154	115	154
	Males.	961	98	85	118	86	67	69	61	64	86	78	60	89
	Fem.	807	81	71	114	59	77	59	54	47	49	76	55	65
	Unk.	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Keweenaw	Totals.	41	3	4	8	.....	3	3	2	2	2	4	4	6
	Males.	26	2	3	3	.....	2	2	1	2	1	3	2	5
	Fem.	15	1	1	5	.....	1	1	1	.....	1	1	2	1
Lake	Totals.	58	4	5	8	8	7	3	.....	3	9	4	4	3
	Males.	37	1	4	6	6	5	1	.....	2	6	3	2	1
	Fem.	21	3	1	2	2	2	2	.....	1	3	1	2	2
Lapeer	Totals.	415	45	44	43	32	24	25	22	35	38	41	22	44
	Males.	237	20	29	27	22	16	13	12	18	21	23	13	23
	Fem.	178	25	15	16	10	8	12	10	17	17	18	9	21
Leelanau	Totals.	122	8	7	22	11	10	8	14	10	12	4	12	4
	Males.	73	6	2	12	8	8	5	10	7	6	2	5	2
	Fem.	49	2	5	10	3	2	3	4	3	6	2	7	3
Lenawee	Totals.	704	72	71	66	64	47	44	48	43	67	60	62	60
	Males.	367	34	44	31	30	27	22	31	20	33	32	27	36
	Fem.	325	38	27	35	34	20	22	17	23	34	28	23	24
	Unk.	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	.....
Livingston	Totals.	252	28	25	29	17	20	17	19	17	18	17	19	26
	Males.	152	17	14	16	9	13	7	14	9	13	11	12	17
	Fem.	100	11	11	13	8	7	10	5	8	5	6	7	9
Luce	Totals.	43	3	3	1	4	2	2	8	10	2	2	3	3
	Males.	30	2	3	1	3	.....	1	6	6	2	1	3	2
	Fem.	13	1	.....	.....	1	2	1	2	4	.....	1	.....	1
Mackinac	Totals.	82	4	10	1	4	7	8	.....	10	14	14	8	2
	Males.	49	3	6	1	2	3	3	.....	6	9	8	6	2
	Fem.	33	1	4	.....	2	4	5	.....	4	5	6	2	.....
Macomb	Totals.	483	38	52	46	46	35	33	38	45	40	32	33	45
	Males.	247	11	21	28	25	21	17	20	20	25	20	16	23
	Fem.	236	27	31	18	21	14	16	18	25	15	12	17	22
Manistee	Totals.	305	34	20	34	26	31	25	28	26	14	21	29	17
	Males.	169	20	11	17	13	17	15	18	15	7	14	14	8
	Fem.	136	14	9	17	13	14	10	10	11	7	7	15	9
Marquette	Totals.	507	47	39	34	40	42	43	26	54	63	50	28	41
	Males.	306	33	22	17	24	26	25	16	34	39	28	18	24
	Fem.	201	14	17	17	16	16	18	10	20	24	22	10	17

TABLE I.—Continued.—Deaths in Michigan, by months, counties and sex, 1901.

Counties.	Sex.	Year, 1901.	Months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Mason.....	Totals.	255	24	19	30	31	24	15	15	25	18	9	23	22
	Males..	128	14	11	14	13	9	7	7	18	6	4	11	14
	Fem..	127	10	8	16	18	15	8	8	7	12	5	12	8
Mecosta.....	Totals.	275	19	22	43	24	21	28	21	26	21	21	10	19
	Males..	153	12	7	26	14	13	15	8	16	12	12	4	14
	Fem...	122	7	15	17	10	8	13	13	10	9	9	6	5
Menominee..	Totals.	294	19	29	23	33	21	19	19	24	34	26	17	30
	Males..	172	13	14	12	20	10	11	12	15	23	18	7	17
	Fem...	122	6	15	11	13	11	8	7	9	11	8	10	13
Midland.....	Totals.	193	13	23	16	16	15	10	15	18	25	18	13	11
	Males..	104	6	14	9	6	10	5	10	8	11	13	8	4
	Fem...	88	7	9	7	10	5	5	5	10	13	5	5	7
	Unk....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Missaukee....	Totals.	86	10	6	11	6	14	4	9	5	6	6	5	4
	Males..	47	4	4	6	3	6	2	4	4	4	4	3	3
	Fem...	39	6	2	5	3	8	2	5	1	2	2	2	1
Monroe.....	Totals.	418	52	36	56	33	33	30	22	24	37	35	27	33
	Males..	227	29	18	24	20	21	15	12	17	23	16	13	19
	Fem...	191	23	18	32	13	12	15	10	7	14	19	14	14
Montcalm....	Totals.	419	29	56	54	39	32	24	29	20	44	30	33	29
	Males..	233	16	30	27	21	19	12	19	11	22	20	18	18
	Fem...	186	13	26	27	18	13	12	10	9	22	10	15	11
Montmor'ncy	Totals.	32	3	2	2	6	4	.....	3	4	.....	4	2	3
	Males..	14	3	.....	2	2	2	.....	2	2	.....	1	.....	.....
	Fem...	18	.....	2	.....	4	2	.....	1	2	.....	3	2	3
Muskegon....	Totals.	446	30	37	42	45	53	23	31	28	46	36	36	39
	Males..	246	22	19	24	20	29	15	14	16	25	21	19	22
	Fem...	200	8	18	18	25	24	8	17	12	21	15	17	17
Newaygo....	Totals.	209	12	24	28	21	13	15	12	13	20	15	21	15
	Males..	123	4	14	19	14	9	10	7	9	9	6	12	10
	Fem..	86	8	10	9	7	4	5	5	4	11	9	9	5
Oakland.....	Totals.	664	80	78	79	61	56	34	45	41	48	44	41	57
	Males..	343	38	40	39	27	38	19	19	27	27	22	24	23
	Fem...	321	42	38	40	34	18	15	26	14	21	22	17	34
Oceana	Totals.	211	17	14	15	17	17	20	14	14	26	28	16	13
	Males..	129	11	7	10	10	10	13	10	9	11	17	11	10
	Fem...	82	6	7	5	7	7	7	4	5	15	11	5	3
Ogemaw.....	Totals.	99	20	6	14	10	3	8	5	2	5	4	13	9
	Males..	52	14	4	7	4	1	4	3	2	3	2	4	4
	Fem...	47	6	2	7	6	2	4	2	.....	2	2	9	5
Ontonagon ..	Totals.	83	4	9	6	3	10	4	5	8	11	9	8	6
	Males..	50	3	5	5	3	4	2	3	2	10	5	6	2
	Fem...	33	1	4	1	.....	6	2	2	6	1	4	2	4
Osceola	Totals.	185	18	19	19	14	16	12	12	15	9	24	12	15
	Males..	105	8	10	13	10	8	8	7	10	7	11	5	8
	Fem...	80	10	9	6	4	8	4	5	5	2	13	7	7
Oscoda.....	Totals.	6	2	2	1	.....	.....	.....	.....	1	.....	.....	.....	.....
	Males..	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Fem...	4	.....	2	1	.....	.....	.....	.....	1	.....	.....	.....	.....
Otsego.....	Totals.	83	3	8	6	8	7	8	3	10	11	4	4	11
	Males..	49	2	6	4	4	6	4	1	8	5	3	1	5
	Fem...	34	1	2	2	4	1	4	2	2	6	1	3	6
Ottawa.....	Totals.	487	40	43	53	36	34	39	38	42	40	40	41	41
	Males..	231	19	23	27	24	17	19	17	16	22	18	15	14
	Fem...	256	21	20	26	12	17	20	21	26	18	22	26	27

TABLE I.—Concluded.—Deaths in Michigan, by months, counties and sex, 1901.

Counties.	Sex.	Year, 1901.	Months, 1901.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Presque Isle.	Totals.	108	4	9	11	6	9	11	6	7	6	11	9	19
	Males..	59	1	3	6	2	6	8	3	4	2	7	5	12
	Fem...	48	3	6	5	4	3	3	3	3	4	4	4	6
	Unk....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Roscommon..	Totals.	27	4	1	3	3	5	1	3	.....	2	2	2	1
	Males..	14	2	.....	2	2	2	1	1	.....	1	1	1	1
	Fem...	13	2	1	1	1	3	.....	2	.....	1	1	1	.....
Saginaw.....	Totals.	1,091	123	104	115	90	84	73	70	106	99	76	76	75
	Males..	562	72	47	58	34	45	38	37	58	53	43	39	38
	Fem...	529	51	57	57	56	39	35	33	48	46	33	37	37
St. Clair.....	Totals.	770	72	77	55	78	76	53	58	68	62	58	49	64
	Males..	384	36	36	27	41	34	24	34	27	29	31	27	38
	Fem...	386	36	41	28	37	42	29	24	41	33	27	22	26
St. Joseph...	Totals.	356	33	39	43	44	35	26	17	18	26	26	19	30
	Males..	184	18	22	18	20	17	11	8	12	19	14	10	15
	Fem...	172	15	17	25	24	18	15	9	6	7	12	9	15
Sanilac.....	Totals.	349	26	40	36	38	35	17	31	22	26	23	27	28
	Males..	181	10	15	20	23	18	5	17	16	16	14	12	15
	Fem...	168	16	25	16	15	17	12	14	6	10	9	15	13
Schoolcraft..	Totals.	113	14	2	14	8	9	10	4	10	13	8	12	9
	Males..	68	8	1	6	6	6	8	1	7	7	4	9	5
	Fem...	45	6	1	8	2	3	2	3	3	6	4	3	4
Shiawassee..	Totals.	457	54	36	43	37	41	34	27	39	35	32	42	37
	Males..	234	23	20	24	19	16	17	14	20	21	16	25	19
	Fem...	223	31	16	19	18	25	17	13	19	14	16	17	18
Tuscola.....	Totals.	509	55	53	61	47	49	33	44	45	36	34	24	28
	Males..	249	29	28	30	23	19	10	25	21	17	21	8	18
	Fem...	260	26	25	31	24	30	23	19	24	19	13	16	10
Van Buren...	Totals.	495	47	47	51	51	33	33	35	31	49	51	29	38
	Males..	233	24	19	23	23	16	16	19	14	22	24	18	15
	Fem...	262	23	28	28	28	17	17	16	17	27	27	11	23
Washtenaw..	Totals.	655	54	60	66	70	59	51	53	43	58	52	47	42
	Males..	342	26	34	34	26	31	28	31	30	37	20	23	22
	Fem...	313	28	26	32	44	28	23	22	13	21	32	24	20
Wayne.....	Totals.	5,503	531	474	506	483	406	407	530	425	407	366	478	490
	Males..	2,942	277	256	250	266	203	226	301	218	222	198	265	260
	Fem...	2,561	254	218	256	217	203	181	229	207	185	168	213	230
Wexford.....	Totals.	215	27	22	28	14	24	15	8	18	16	16	14	13
	Males..	138	13	15	18	7	17	9	8	11	11	9	9	11
	Fem...	77	14	7	10	7	7	6	.....	7	5	7	5	2

TABLE II.—Deaths in Michigan by ages, counties

State and counties.	Sex.	Total deaths at all ages, 1901.	Ages in years.				
			Under 1 year.	1.	2.	3.	4.
STATE	Totals	32,834	6,319	1,121	530	348	253
	Males	17,540	3,583	594	274	163	135
	Females	15,273	2,730	526	256	185	118
	Unknown	21	6	1	.....	.....	.....
Alcona	Totals	63	12	4	.....	1	.....
	Males	34	4	.....	.....	.....	.....
	Females	29	8	4	.....	1	.....
Alger	Totals	48	21	4	1	.....	.....
	Males	33	15	3	1	.....	.....
	Females	14	6	.....	.....	.....	.....
	Unknown	1	.....	1	.....	.....	.....
Allegan	Totals	496	66	18	6	4	3
	Males	282	45	11	5	1	2
	Females	214	21	7	1	3	1
Alpena	Totals	210	63	4	3	2	.....
	Males	113	42	3	.....	1	.....
	Females	97	21	1	3	1	.....
Antrim	Totals	209	46	11	4	5	5
	Males	108	22	5	2	2	2
	Females	101	24	6	2	3	3
Arenac	Totals	120	28	11	5	3	3
	Males	67	21	4	2	.....	1
	Females	53	7	7	3	2	2
Baraga	Totals	60	15	5	4	1	3
	Males	36	7	1	4	1	1
	Females	24	8	4	.....	.....	2
Barry	Totals	267	30	1	3	3	2
	Males	137	18	1	3	.....	1
	Females	130	12	.....	.....	3	1
Bay	Totals	782	167	27	21	11	6
	Males	380	77	13	13	6	2
	Females	402	90	14	8	5	4
Benzie	Totals	136	37	6	5	2	1
	Males	65	19	.....	2	.....	1
	Females	71	18	6	3	2	.....
Berrien	Totals	659	101	12	9	4	6
	Males	367	54	4	3	.....	2
	Females	292	47	8	6	4	4
Branch	Totals	381	40	9	6	4	2
	Males	195	20	6	2	2	2
	Females	186	20	3	4	2	.....
Calhoun	Totals	736	87	9	5	5	3
	Males	351	47	1	1	3	2
	Females	385	40	8	4	2	1
Cass	Totals	269	25	2	3	.....	.....
	Males	140	13	1	3	.....	.....
	Females	128	11	1	.....	.....	.....
	Unknown	1	1	.....	.....	.....	.....
Charlevoix	Totals	176	42	11	4	2	.....
	Males	109	24	5	2	1	.....
	Females	67	18	6	2	1	.....
Cheboygan	Totals	201	53	10	4	2	1
	Males	107	27	7	3	1	1
	Females	94	26	3	1	1	.....

and sex, during the year 1901. (Stillbirths excluded.)

Ages in five-year periods.

Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 and over.	Unk.
8,571	786	675	1,056	1,301	1,262	1,151	1,163	1,196	1,189	1,374	1,561	1,740	2,249	2,241	2,222	2,980	117
4,749	399	380	522	631	585	515	586	633	637	736	860	947	1,240	1,253	1,204	1,583	80
3,815	387	295	534	670	677	636	577	563	552	638	701	793	1,009	988	1,018	1,397	23
7	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14
17	2	1	4	5	5	2	1	.....	3	2	4	7	3	3	2	2	..
4	2	....	2	4	3	2	.....	.....	3	2	3	4	2	1	1	1	..
13	....	1	2	1	2	.....	1	.....	.....	.....	1	3	1	2	1	1	..
26	1	1	3	.....	.....	1	4	2	2	2	.....	.....	2	2	1	1	..
19	1	....	2	.....	.....	.....	2	2	1	1	.....	.....	2	1	1	1	..
6	....	1	1	.....	.....	1	2	.....	1	1	.....	.....	.....	1	.....	.....	..
1	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..
97	6	9	17	16	16	16	14	14	20	21	17	30	50	47	45	59	2
64	3	3	9	6	12	6	4	7	10	11	9	15	30	29	27	35	2
33	3	6	8	10	4	10	10	7	10	10	8	15	20	18	18	24	..
72	5	4	9	7	10	8	3	11	12	10	8	9	12	9	10	11	..
46	3	1	2	4	6	1	1	4	7	4	6	7	6	5	4	6	..
26	2	3	7	3	4	7	2	7	5	6	2	2	6	4	6	5	..
71	7	6	5	5	12	13	12	4	12	10	8	10	10	10	4	8	2
33	3	3	4	4	6	8	4	2	8	5	5	6	3	8	1	4	1
38	4	3	1	1	6	5	8	2	4	5	3	4	7	2	3	4	1
49	6	6	6	2	2	.....	1	4	3	3	2	4	4	8	8	12	..
28	2	2	3	.....	1	.....	.....	3	3	1	2	4	3	3	6	6	..
21	4	4	3	2	1	.....	1	1	.....	2	.....	.....	1	5	2	6	..
28	....	2	3	3	3	4	3	3	.....	2	2	.....	3	4	.....	.....	..
14	....	2	2	2	1	3	3	2	.....	1	2	.....	2	2	.....	.....	..
14	....	....	1	1	2	1	.....	1	.....	1	.....	.....	1	2	.....	.....	..
39	4	5	3	11	11	5	4	10	10	11	15	16	23	26	33	41	..
23	3	2	.....	2	6	.....	1	2	1	5	10	7	18	13	19	25	..
16	1	3	3	9	5	5	3	8	9	6	5	9	5	13	14	16	..
232	26	18	30	33	30	20	23	36	26	41	43	33	51	45	42	51	2
111	14	12	12	10	16	8	5	20	10	24	24	18	29	24	18	23	2
121	12	6	18	23	14	12	18	16	16	17	19	15	22	21	24	28	..
51	4	2	6	5	4	5	6	2	4	9	4	1	8	10	6	9	..
22	1	....	2	3	1	1	5	.....	2	7	2	1	3	3	4	8	..
29	3	2	4	2	3	4	1	2	2	2	2	.....	5	7	2	1	..
132	8	14	15	23	29	27	24	19	23	35	31	48	51	61	53	64	2
63	5	9	6	9	11	9	13	11	14	19	18	29	36	39	30	44	2
69	3	5	9	14	18	18	11	8	9	16	13	19	15	22	23	20	..
61	7	7	9	12	10	17	7	10	7	14	18	22	31	45	43	61	..
32	5	4	4	3	5	8	3	4	5	8	9	8	21	22	25	29	..
29	2	3	5	9	5	9	4	6	2	6	9	14	10	23	18	32	..
109	6	15	14	21	25	27	36	25	33	22	51	55	72	68	65	92	..
54	4	8	6	8	10	8	11	12	16	11	26	24	37	36	38	42	..
55	2	7	8	13	15	19	25	13	17	11	25	31	35	32	27	50	..
30	6	5	6	9	11	14	5	11	9	10	22	12	27	27	25	40	..
17	2	4	4	4	8	5	2	5	7	5	11	7	10	16	14	19	..
12	4	1	2	5	3	9	3	6	2	5	11	5	17	11	11	21	..
1	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..
59	7	2	8	10	5	11	7	5	8	7	4	9	9	6	9	7	3
32	3	2	3	6	2	7	4	4	5	5	3	5	7	5	8	5	3
27	4	....	5	4	3	4	3	1	3	2	1	4	2	1	1	2	..
70	4	5	7	9	12	9	8	8	3	9	8	10	10	10	6	11	2
39	2	2	5	2	4	4	5	6	2	1	5	6	6	5	4	8	1
31	2	3	2	7	8	5	3	2	1	8	3	4	4	5	2	3	1

TABLE II.—Continued.—Deaths in Michigan by age

Counties.	Sex.	Total deaths at all ages, 1901.	Ages in years.				
			Under 1 year.	1.	2.	3.	4.
Chippewa	Totals	313	86	17	11	5	
	Males	174	40	11	5	2	
	Females	139	46	6	6	3	
Clare	Totals	90	16	3	.....	4	....
	Males	49	11	2	.....	4	....
	Females	41	5	1	.....	.....	....
Clinton	Totals	337	44	9	5	5	
	Males	167	21	5	3	2	
	Females	170	23	4	2	3	
Crawford	Totals	26	7	2	2	1	....
	Males	15	2	1	.....	1	....
	Females	11	5	1	2	.....	....
Delta	Totals	297	86	10	12	4	
	Males	165	44	5	4	3	
	Females	132	42	5	8	1	
Dickinson	Totals	253	87	12	6	.....	
	Males	163	51	8	3	.....	
	Females	90	36	4	3	.....	
Eaton	Totals	403	29	9	3	5	
	Males	221	25	6	2	4	
	Females	181	3	3	1	1	....
	Unknown	1	1	.....	.....	.....	....
Emmet	Totals	214	50	7	4	2	
	Males	109	26	3	.....	1	....
	Females	105	24	4	4	1	
Genesee	Totals	572	78	16	6	2	
	Males	307	53	10	1	1	
	Females	265	25	6	5	1	
Gladwin	Totals	63	19	4	4	1	....
	Males	39	12	3	1	.....	....
	Females	24	7	1	3	1	....
Gogebic	Totals	257	93	25	11	6	
	Males	149	53	11	9	3	
	Females	108	40	14	2	3	
Grand Traverse	Totals	342	69	9	5	3	
	Males	190	38	5	4	.....	....
	Females	152	31	4	1	3	
Gratiot	Totals	361	54	11	6	4	
	Males	188	30	8	4	1	
	Females	173	24	3	2	3	
Hillsdale	Totals	422	36	8	2	1	
	Males	216	22	5	1	.....	
	Females	206	14	3	1	1	....
Houghton	Totals	892	295	57	24	15	
	Males	524	170	33	14	6	
	Females	368	125	24	10	9	
Huron	Totals	373	96	13	6	3	
	Males	192	49	7	5	.....	
	Females	180	47	6	1	3	
	Unknown	1	.....	.....	.....	.....	....
Ingham	Totals	542	53	12	5	4	
	Males	272	26	8	2	3	....
	Females	270	27	4	3	1	
Ionia	Totals	464	62	9	4	2	
	Males	235	27	4	3	2	
	Females	228	34	5	1	.....	
	Unknown	1	1	.....	.....	.....	....

counties and sex, during the year 1901. (Stillbirths excluded.)

Ages in five-year periods.

Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 and over.	Unk.
123	13	4	12	16	18	5	17	10	9	17	10	10	18	11	5	11	4
59	9	2	3	9	9	3	13	7	7	11	5	7	12	5	2	7	4
64	4	2	9	7	9	2	4	3	2	6	5	3	6	6	3	4	..
23	1	1	6	4	3	7	1	6	2	3	3	3	8	8	7	4	..
17	1	....	2	1	2	2	1	3	1	3	1	2	5	4	3	1	..
6	....	1	4	3	1	5	.....	3	1	.....	2	1	3	4	4	3	..
66	8	5	10	12	9	10	8	5	13	9	21	19	32	35	35	40	..
33	4	4	4	4	3	5	4	2	8	5	7	11	11	22	21	19	..
33	4	1	6	8	6	5	4	3	5	4	14	8	21	13	14	21	..
12	....	2	.....	3	.....	1	.....	.....	2	1	3	.....	.....	.....	2	.....	..
4	....	2	.....	2	.....	1	.....	.....	2	1	2	.....	.....	.....	1	.....	..
8	....	....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	..
116	10	10	15	17	16	14	15	8	9	12	9	11	8	4	9	11	3
57	3	6	8	10	11	10	9	3	7	7	7	6	6	3	3	6	3
59	7	4	7	7	5	4	6	5	2	5	2	5	2	1	6	5	..
107	9	7	11	15	14	13	10	13	12	10	5	9	7	1	7	2	1
63	9	3	6	10	10	9	6	9	9	7	5	7	5	1	2	1	1
44	....	4	5	5	4	4	4	4	3	3	.....	2	2	.....	5	1	..
47	8	7	11	19	12	9	17	8	15	26	22	27	46	35	40	54	..
38	4	5	4	10	3	5	10	5	6	15	9	15	20	19	22	31	..
8	4	2	7	9	9	4	7	3	9	11	13	12	26	16	18	23	..
1	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..
65	5	5	7	6	9	13	8	6	12	11	3	14	14	14	9	13	..
30	1	3	5	3	3	6	5	4	6	4	1	5	8	11	6	7	..
35	4	2	2	3	6	7	3	2	6	7	2	8	6	3	3	6	..
107	12	12	17	24	16	11	19	11	19	25	38	42	41	51	46	80	1
69	6	6	12	13	6	6	11	5	10	9	19	18	24	26	23	44	..
38	6	6	5	11	10	5	8	6	9	16	19	24	17	25	23	36	1
28	3	2	2	5	2	.....	3	1	2	1	3	1	.....	5	3	2	..
16	1	1	2	2	.....	.....	2	1	2	.....	2	1	.....	5	2	2	..
12	2	1	.....	3	2	.....	1	.....	.....	1	1	.....	.....	.....	1	.....	..
145	16	4	6	11	8	14	13	6	5	7	5	4	6	2	1	3	1
82	6	3	3	9	4	9	9	5	2	5	3	2	3	.....	1	3	..
63	10	1	3	2	4	5	4	1	3	2	2	2	3	2	.....	.....	1
87	9	5	10	21	11	10	13	11	16	21	25	15	32	18	16	21	1
47	4	2	6	11	6	2	7	6	9	9	16	12	19	10	9	14	1
40	5	3	4	10	5	8	6	5	7	12	9	3	13	8	7	7	..
78	12	6	14	11	15	15	16	14	12	10	22	17	42	20	26	31	..
44	6	2	5	4	8	4	3	6	4	5	14	10	26	12	15	20	..
34	6	4	9	7	7	11	13	8	8	5	8	7	16	8	11	11	..
49	4	5	12	9	16	5	10	17	16	20	17	31	40	32	54	85	..
30	2	4	6	4	4	3	4	9	6	9	6	14	21	17	26	51	..
19	2	1	6	5	12	2	6	8	10	11	11	17	19	15	28	34	..
400	36	22	29	43	57	34	41	29	22	27	33	20	27	29	12	15	12
229	19	14	14	29	36	24	26	19	15	11	18	13	17	16	6	7	11
171	17	8	15	14	21	10	15	10	7	16	15	7	10	13	6	12	1
125	11	11	6	17	14	8	3	17	13	9	14	16	20	20	30	36	3
65	4	4	3	7	5	4	.....	7	8	4	6	9	7	15	17	26	1
60	7	7	3	10	9	4	3	10	5	5	8	7	13	5	13	10	1
.....	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
75	12	5	25	24	17	18	20	23	23	20	32	34	52	33	56	72	1
39	5	4	14	12	8	3	12	10	8	13	16	15	31	17	27	37	1
36	7	1	11	12	9	15	8	13	15	7	16	19	21	16	29	35	..
79	7	7	13	19	17	15	16	15	12	25	30	31	31	46	44	57	..
37	3	3	9	8	6	5	5	9	2	11	17	12	17	34	28	29	..
41	4	4	4	11	11	10	11	6	10	14	13	19	14	12	16	28	..
1	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..

TABLE II.—Continued.—Deaths in Michigan by ages,

Counties.	Sex.	Total deaths at all ages, 1901.	Ages in years.				
			Under 1 year.	1.	2.	3.	4.
Iosco	Totals	135	24	4	4	4	3
	Males	75	13	3	2	1	2
	Females	60	11	1	2	3	1
Iron	Totals	105	26	4	3	3	1
	Males	56	13	1	2	2	.....
	Females	49	13	3	1	1	1
Isabella	Totals	243	59	13	3	3	1
	Males	127	37	4	2	1	1
	Females	115	21	9	1	2	.....
	Unknown	1	1	.....	.....	.....	.....
Jackson	Totals	615	69	11	7	9	.....
	Males	305	41	8	4	4	.....
	Females	310	28	3	3	5	.....
Kalamazoo	Totals	740	88	15	6	5	2
	Males	376	44	6	1	1	1
	Females	364	44	9	5	4	1
Kalkaska	Totals	88	20	8	2	1	1
	Males	50	11	5	1	.....	1
	Females	38	9	3	1	1	.....
Kent	Totals	1,769	289	49	27	21	13
	Males	961	166	31	12	9	7
	Females	807	122	18	15	12	6
	Unknown	1	1	.....	.....	.....	.....
Keweenaw	Totals	41	10	2	4	1	.....
	Males	26	6	2	2	1	.....
	Females	15	4	.....	2	.....	.....
Lake	Totals	58	6	6	2	.....	1
	Males	37	4	5	1	.....	1
	Females	21	2	1	1	.....	.....
Lapeer	Totals	415	54	7	8	3	3
	Males	237	37	2	5	1	2
	Females	178	17	5	3	2	1
Leelanau	Totals	122	36	2	1	2	1
	Males	73	16	1	1	.....	.....
	Females	49	20	1	.....	2	1
Lenawee	Totals	704	78	12	9	1	1
	Males	367	46	5	2	1	1
	Females	325	32	7	7	.....	.....
	Unknown	12	.....	.....	.....	.....	.....
Livingston	Totals	252	17	2	2	.....	2
	Males	152	5	2	2	.....	.....
	Females	100	12	.....	.....	.....	2
Luce	Totals	43	11	2	.....	.....	.....
	Males	30	8	1	.....	.....	.....
	Females	13	3	1	.....	.....	.....
Mackinac	Totals	82	17	1	.....	2	3
	Males	49	10	1	.....	1	.....
	Females	33	7	.....	.....	1	3
Macomb	Totals	483	81	12	6	8	6
	Males	247	42	9	3	6	2
	Females	236	39	3	3	2	4
Manistee	Totals	305	76	16	5	6	3
	Males	169	43	6	2	3	1
	Females	136	33	10	3	3	2
Marquette	Totals	507	148	26	12	11	7
	Males	306	85	8	6	5	6
	Females	201	63	18	6	6	1

counties and sex, during the year 1901. (Stillbirths excluded.)

Ages in five-year periods.

Under 5 years.	5 to 9.	10 to 14.	15 to 19.	19 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79	80 and over.	Unk.
39	12	6	6	6	6	7	2	10	5	6	4	4	3	9	5	5	..
21	5	3	3	3	4	2	.....	7	4	3	2	2	3	7	4	2	..
18	7	3	3	3	2	5	2	3	1	3	2	2	.....	2	1	3	..
37	9	5	2	7	10	9	5	2	7	2	2	1	2	.....	3	2	..
18	3	2	1	4	7	6	3	.....	7	2	1	.....	.....	.....	.....	2	..
19	6	3	1	3	3	3	2	2	.....	.....	1	1	2	.....	3	.....	..
79	7	6	9	7	9	3	10	10	7	7	15	11	10	18	12	22	1
45	4	2	1	4	6	2	5	2	3	5	10	5	5	10	4	14	..
33	3	4	8	3	3	1	5	8	4	2	5	6	5	8	8	8	1
1	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..
96	8	8	13	28	23	17	23	30	30	27	31	38	53	51	65	74	..
57	4	4	4	17	8	3	13	15	13	16	13	19	27	29	26	37	..
39	4	4	9	11	15	14	10	15	17	11	18	19	26	22	39	37	..
116	10	13	18	20	27	32	34	36	28	44	40	52	57	56	64	87	6
53	....	7	7	12	13	13	15	19	13	23	27	26	28	37	36	44	3
63	10	6	11	8	14	19	19	17	15	21	13	26	29	19	28	43	3
32	6	....	7	2	4	3	2	3	6	2	5	4	1	1	4	5	1
18	4	....	3	1	2	2	1	1	4	.....	5	3	1	.....	3	1	1
14	2	....	4	1	2	1	1	2	2	2	.....	1	.....	1	1	4	..
399	34	27	58	71	77	50	57	65	66	77	104	113	133	141	117	178	2
225	17	19	34	31	30	21	30	28	26	45	57	68	84	84	65	95	2
173	17	8	24	40	47	29	27	37	40	32	47	45	49	57	52	83	..
1	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..
17	2	1	1	2	3	1	.....	1	3	1	1	.....	2	3	.....	1	2
11	1	1	.....	2	1	.....	.....	1	2	1	1	.....	1	2	.....	.....	2
6	1	....	1	.....	2	1	.....	.....	1	.....	.....	.....	1	1	.....	1	..
15	....	1	1	3	4	2	.....	3	6	2	5	2	2	5	1	5	1
11	....	1	.....	2	3	.....	.....	1	3	.....	5	1	2	4	1	2	1
4	....	....	1	1	1	2	.....	2	3	2	.....	1	.....	1	.....	3	..
75	12	22	20	20	11	9	4	17	13	18	18	29	28	25	39	54	1
47	7	10	14	10	3	6	1	9	5	10	9	15	16	16	24	34	1
28	5	12	6	10	8	3	3	8	8	8	9	14	12	9	15	20	..
42	....	5	2	4	5	3	4	5	5	6	1	5	7	6	13	9	..
18	....	2	1	2	3	2	4	4	3	2	.....	5	6	5	11	5	..
24	....	3	1	2	2	1	.....	1	2	4	1	.....	1	1	2	4	..
101	11	11	12	29	27	21	20	16	21	37	48	39	43	76	71	107	14
55	4	6	2	19	11	11	7	8	10	17	23	25	28	50	38	51	2
46	7	5	10	10	16	10	13	8	11	20	25	14	15	26	33	56	..
.....	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12
23	4	4	12	6	8	11	8	8	6	9	14	21	19	35	29	35	..
9	2	3	9	5	5	4	5	7	3	8	10	13	8	17	23	21	..
14	2	1	3	1	3	7	3	1	3	1	4	8	11	18	6	14	..
13	1	2	.....	1	2	2	3	4	.....	1	3	1	2	.....	3	2	3
9	....	1	.....	1	2	.....	3	3	.....	.....	3	1	.....	.....	2	2	3
4	1	1	.....	.....	.....	2	.....	1	.....	1	.....	.....	2	.....	1	.....	..
23	1	3	3	9	6	5	8	4	1	1	1	2	5	3	.....	4	3
12	1	2	2	6	3	3	7	2	.....	.....	1	2	4	1	.....	2	1
11	....	1	1	3	3	2	1	2	1	1	.....	.....	1	2	.....	2	2
113	6	12	12	17	16	10	13	14	19	17	21	34	44	39	42	54	..
62	4	6	6	8	7	6	9	7	8	7	7	15	23	20	21	31	..
51	2	6	6	9	9	4	4	7	11	10	14	19	21	19	21	23	..
106	13	14	9	11	12	7	10	12	10	15	15	14	14	10	14	17	2
55	9	9	5	4	4	1	7	7	5	12	12	11	9	5	7	5	2
51	4	5	4	7	8	6	3	5	5	3	3	3	5	5	7	12	..
204	22	18	17	20	25	23	36	21	13	12	16	22	12	22	9	14	1
110	13	12	12	14	17	17	27	13	11	7	10	15	5	8	6	8	1
94	9	6	5	6	8	6	9	8	2	5	6	7	7	14	3	6	..

TABLE II.—Continued.—Deaths in Michigan by ages.

Counties.	Sex.	Total deaths at all ages, 1901.	Ages in years.				
			Under 1 year.	1.	2.	3.	4.
Mason	Totals	255	64	9	3	4	2
	Males	128	38	3	3	1	2
	Females	127	26	6	.....	3	.....
Mecosta	Totals	275	48	14	7	2	1
	Males	153	20	10	1	.....	.....
	Females	122	28	4	6	2	1
Menominee	Totals	294	94	8	9	4	2
	Males	172	51	3	6	4	1
	Females	122	43	5	3	.....	1
Midland	Totals	193	51	6	7	4	.....
	Males	104	32	4	5	2	.....
	Females	88	18	2	2	2	.....
	Unknown	1	1	.....	.....	.....	.....
Missaukee	Totals	86	29	6	1	2	4
	Males	47	15	3	1	.....	3
	Females	39	14	3	.....	2	1
Monroe	Totals	418	61	8	4	4	2
	Males	227	41	5	1	2	.....
	Females	191	20	3	3	2	2
Montcalm	Totals	419	64	18	7	4	2
	Males	233	40	11	4	3	1
	Females	186	24	7	3	1	1
Montmorency	Totals	32	10	1	1	.....	.....
	Males	14	6	.....	.....	.....	.....
	Females	18	4	1	1	.....	.....
Muskegon	Totals	446	81	19	5	3	2
	Males	246	53	10	3	3	1
	Females	200	28	9	2	.....	1
Newaygo	Totals	209	44	9	6	3	2
	Males	123	32	4	3	1	2
	Females	86	12	5	3	2	.....
Oakland	Totals	664	75	18	4	6	2
	Males	343	48	9	4	3	2
	Females	321	27	9	.....	3	.....
Oceana	Totals	211	52	13	4	4	.....
	Males	129	33	8	2	2	.....
	Females	82	19	5	2	2	.....
Ogemaw	Totals	99	28	3	.....	1	1
	Males	52	15	.....	.....	.....	.....
	Females	47	13	3	.....	1	1
Ontonagon	Totals	83	22	3	4	5	.....
	Males	50	15	1	1	4	.....
	Females	33	7	2	3	1	.....
Osceola	Totals	185	38	9	4	2	.....
	Males	105	24	6	1	1	.....
	Females	80	14	3	3	1	.....
Oscoda	Totals	6	.....	.....	.....	.....	.....
	Males	2	.....	.....	.....	.....	.....
	Females	4	.....	.....	.....	.....	.....
Otsego	Totals	83	18	10	.....	1	1
	Males	49	9	6	.....	.....	1
	Females	34	9	4	.....	1	.....
Ottawa	Totals	487	96	17	6	7	7
	Males	231	51	8	4	3	3
	Females	256	45	9	2	4	4

counties and sex, during the year 1901. (Stillbirths excluded.)

Ages in five-year periods.

Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 39.	70 to 74.	75 to 79.	80 and over.	Unk.
82	6	5	10	16	7	9	5	4	6	11	17	13	15	22	11	16	..
47	3	1	6	3	1	3	3	2	3	4	6	8	8	12	8	10	..
35	3	4	4	13	6	6	2	2	3	7	11	5	7	10	3	6	.
72	5	4	17	15	6	12	6	12	13	8	10	18	17	20	14	24	2
31	4	3	11	4	5	7	2	5	11	6	4	14	7	12	10	15	2
41	1	1	6	11	1	5	4	7	2	2	6	4	10	8	4	9	..
117	11	8	12	20	7	13	5	16	11	13	9	14	5	11	9	12	1
65	7	4	5	10	4	8	2	12	7	8	6	10	2	7	6	8	1
52	4	4	7	10	3	5	3	4	4	5	3	4	3	4	3	4	..
68	8	3	3	10	7	3	7	12	14	5	9	10	12	8	5	8	1
43	3	3	1	5	5	2	3	5	5	2	5	7	3	5	2	5	..
24	5	....	2	5	2	1	4	7	9	3	4	3	9	3	3	3	1
1	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..
42	1	1	2	6	3	2	4	3	4	3	2	1	4	2	3	1	2
22	1	1	2	3	2	2	1	1	3	1	1	1	2	2	.....	1	1
20	....	....	.....	3	1	.....	3	2	1	2	1	.....	2	.....	3	.....	1
79	9	9	12	16	20	15	10	14	6	16	20	19	27	40	55	50	1
49	4	4	10	10	7	7	5	7	2	10	14	11	15	19	23	30	..
30	5	5	2	6	13	8	5	7	4	6	6	8	12	21	32	20	1
95	7	5	11	17	11	13	10	16	13	22	18	24	40	40	36	41	..
59	2	3	3	6	4	5	4	8	3	13	11	13	25	28	26	20	..
36	5	2	8	11	7	8	6	8	10	9	7	11	15	12	10	21	..
12	1	1	1	1	3	1	3	.....	2	.....	2	.....	1	.....	2	2	..
6	1	....	.....	1	1	.....	2	.....	2	.....	1	.....	.....	.....	.....	.....	..
6	....	1	1	.....	2	1	1	.....	.....	.....	1	.....	1	.....	2	2	..
110	14	16	17	23	15	14	18	13	11	21	25	17	37	37	31	26	1
70	6	8	5	14	9	7	10	4	6	8	12	8	22	23	20	13	1
40	8	8	12	9	6	7	8	9	5	13	13	9	15	14	11	13	..
64	6	3	9	5	6	9	6	5	7	8	7	11	19	12	13	18	1
42	4	3	7	1	2	2	3	2	5	5	4	3	13	5	9	12	1
22	2	....	2	4	4	7	3	3	2	3	3	8	6	7	4	6	..
105	8	8	18	18	22	28	23	35	24	31	41	41	44	60	66	90	2
66	4	4	11	7	8	10	8	18	10	15	24	26	30	25	36	41	..
39	4	4	7	11	14	18	15	17	14	16	17	15	14	35	30	49	2
73	5	5	7	5	6	6	7	7	3	5	7	13	18	12	11	21	..
45	5	3	4	.....	3	3	4	5	2	2	4	7	11	9	8	14	..
28	....	2	3	5	3	3	3	2	1	3	3	6	7	3	3	7	..
33	4	5	6	5	4	.....	5	4	3	2	5	5	5	5	3	4	1
15	3	1	3	2	1	.....	2	2	2	1	5	1	5	2	3	3	1
18	1	4	3	3	3	.....	3	2	1	1	.....	4	.....	3	.....	1	..
34	1	4	3	1	4	3	2	6	3	.....	3	5	3	3	4	3	1
21	1	2	.....	1	3	1	2	6	1	.....	2	.....	3	1	4	1	1
13	....	2	3	.....	1	2	.....	.....	2	.....	1	5	.....	2	.....	2	..
	6	5	12	2	8	8	7	3	6	11	8	9	9	9	6	22	1
32	1	3	8	1	5	4	1	1	4	5	5	5	6	6	5	12	1
21	5	2	4	1	3	4	6	2	2	6	3	4	3	3	1	10	..
.....	....	....	1	.....	1	1	.....	.....	1	.....	.....	.....	2	.....	.....	.....	..
.....	....	....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	..
.....	....	....	1	.....	1	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	..
30	2	3	2	1	5	3	4	5	3	3	2	1	6	3	2	5	3
16	1	3	2	1	3	2	2	5	3	.....	2	.....	2	1	1	3	2
14	1	....	.....	.....	2	1	2	.....	.....	3	.....	1	4	2	1	2	1
133	8	7	11	19	21	17	17	8	14	15	24	29	28	36	38	62	..
69	3	2	8	10	8	7	6	3	6	8	13	11	11	17	20	29	..
64	5	5	3	9	13	10	11	5	8	7	11	18	17	19	18	33	..

TABLE II.—Concluded.—Deaths in Michigan by ages,

Counties.	Sex.	Total deaths at all ages, 1901.	Ages in years.				
			Under 1 year.	1.	2.	3.	4.
Presque Isle	Totals	108	33	3	1	3	1
	Males	59	19	3	1	1	1
	Females	48	14	.....	.....	2	.....
	Unknown	1	.....	.....	.....	.....	.....
Roscommon	Totals	27	3	.....	.....	.....	1
	Males	14	2	.....	.....	.....	1
	Females	13	1	.....	.....	.....	.....
Saginaw	Totals	1,091	184	31	16	19	12
	Males	562	111	20	8	10	5
	Females	529	73	11	8	9	7
St. Clair	Totals	770	125	31	10	8	7
	Males	384	76	18	3	3	5
	Females	386	49	13	7	5	2
St. Joseph	Totals	356	27	4	.....	.....	1
	Males	184	12	2	.....	.....	1
	Females	172	15	2	.....	.....	.....
Sanilac	Totals	349	73	10	1	2	5
	Males	181	42	7	.....	1	1
	Females	168	31	3	1	1	4
Schoolcraft	Totals	113	31	11	5	2	2
	Males	68	20	8	2	.....	1
	Females	45	11	3	3	2	1
Shiawassee	Totals	457	70	8	6	4	.....
	Males	234	39	5	2	3	.....
	Females	223	31	3	4	1	.....
Tuscola	Totals	509	96	20	10	4	4
	Males	249	44	11	4	2	1
	Females	260	52	9	6	2	3
Van Buren	Totals	495	69	11	7	3	3
	Males	233	43	7	3	1	2
	Females	262	26	4	4	2	1
Washtenaw	Totals	655	69	10	3	3	6
	Males	342	45	6	1	1	5
	Females	313	24	4	2	2	1
Wayne	Totals	5,503	1,408	232	94	48	43
	Males	2,942	792	108	54	24	23
	Females	2,561	616	124	40	24	20
Wexford	Totals	215	54	10	5	1	1
	Males	138	33	8	2	1	1
	Females	77	21	2	3	.....	.....

counties and sex, during the year 1901. (Stillbirths excluded.)

Ages in five-year periods.

Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 and over.	Unk.
41	7	....	7	7	5	6	1	5	2	3	2	7	3	3	2	5	2
25	3	....	4	4	3	4	.....	3	2	2	2	2	1		1	2	1
16	4	....	3	3	2	2	1	2	.....	1	.....	5	2	3	1	3	..
.....	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		.....	.....	1
4	....	....	1	2	2	.....	1	1	1	4	1	1	2	3	.....	4	..
3	....	....	.....	1	1	.....	.....	1	1	2	1	.....	1		.....	2	..
1	....	....	1	1	1	.....	1	.....	.....	2		1	1	2	.....	2	..
262	21	28	45	43	49	46	41	38	39	44	54	51	73	73	87	97	..
154	13	15	16	18	17	21	24	20	20	21	31	21	39	34	46	52	..
108	8	13	29	25	32	25	17	18	19	23	23	30	34	39	41	45	..
181	23	17	32	22	21	22	24	21	33	33	32	34	47	61	62	93	2
105	10	9	12	11	7	3	14	5	14	26	16	18	28	34	27	45	..
76	13	8	20	11	14	19	10	16	19	17	16	16	19	27	35	48	2
32	5	3	13	5	6	6	15	12	13	9	20	30	42	42	41	61	1
15	4	2	4	5	1	3	6	8	5	5	10	21	21	23	16	34	1
17	1	1	9	.....	5	3	9	4	8	4	10	9	21	19	25	27	.
91	4	6	13	18	11	8	8	10	9	19	22	20	25	28	27	29	.
51	1	6	4	7	3	5	5	6	4	9	12	11	13	14	18	11	1
40	3	....	9	11	8	3	3	4	5	10	10	9	12	14	9	18	..
51	8	4	.....	4	6	6	5	6	2	4	3	4	4	3	1	1	1
31	4	1	.....	3	3	2	3	5	1	3	2	4	3	2	.....	.....	1
20	4	3	.....	1	3	4	2	1	1	1	1	.....	1	1	1	1	..
88	7	8	8	13	10	17	27	14	22	21	16	27	50	35	42	49	3
49	5	6	3	5	3	4	10	6	9	12	10	14	27	19	21	29	2
39	2	2	5	8	7	13	17	8	13	9	6	13	23	16	21	20	1
134	20	6	14	23	13	21	15	13	23	23	20	15	46	40	32	50	1
62	10	3	8	10	3	7	5	6	18	12	11	7	22	20	17	28	..
72	10	3	6	13	10	14	10	7	5	11	9	8	24	20	15	22	1
93	6	7	14	12	13	15	14	13	13	28	23	32	45	53	41	69	4
56	2	2	8	4	4	4	5	5	7	10	6	12	21	25	21	37	4
37	4	5	6	8	9	11	9	8	6	18	17	20	24	28	20	32	..
91	17	15	23	27	16	33	26	30	26	32	35	40	58	46	57	81	2
58	6	7	10	11	8	15	13	13	20	17	13	20	33	27	34	36	1
33	11	8	13	16	8	18	13	17	6	15	22	20	25	19	23	45	1
1,825	124	99	173	220	229	211	214	241	220	216	240	275	328	276	269	337	6
1,001	65	62	88	104	108	103	110	140	129	128	139	154	162	148	132	163	6
824	59	37	85	116	121	108	104	101	91	88	101	121	166	128	137	174	..
71	9	10	6	15	11	7	6	4	7	8	8	12	7	13	7	14	..
45	5	7	3	9	8	4	4	1	5	4	3	11	6	8	5	10	..
26	4	3	3	6	3	3	2	3	2	4	5	1	1	5	2	4	..

[illegible] of death in Michigan, by months.

[illegible] of death [illegible]

			July.	Aug.	Sept.	[illegible]	Nov.	Dec.
[illegible]	[illegible]	2,434	2,395	2,573	2,847	2,435	2,354	2,655
[illegible]	[illegible]	[illegible]	364	1,393	1,560	1,327	1,250	1,427
[illegible]	[illegible]	[illegible]	1,331	1,178	1,286	1,108	1,091	1,226
				2	1	...	13	2
	32	23	25	47	91	85	79	52
	17	14	16	29	55	53	47	27
	14	9	9	18	36	32	32	25
		1	1	2	5	6	4	4
		1		1	3	2	3	1
	...	...	1	1	2	4	1	3
	11	9	13	14	15	14	6	8
	6	4	4	8	9	4	3	5
	5	5	9	6	6	10	3	3
	1	6	2	1	4	2	2	3
	1	2	1		3	1	1	1
	...	4	1	1	1	1	1	2
	5	12	10	1	3	2	8	14
	2	7	7	...	2	1	3	7
	3	5	3	1	1	1	5	7
	31	17	8	17	6	21	29	42
	15	8	3	6	3	10	13	18
	16	9	5	11	3	11	16	24
	14	10	14	16	18	4	10	14
	4	2	4	8	10	1	5	9
	10	8	10	8	8	3	5	5
	34	14	14	14	42	40	42	32
	20	6	6	11	21	17	25	14
	14	8	8	3	21	23	17	18
	3	2	2	1	3	5	7	4
	3	2	...	1	2	2	5	2
		...	2	...	1	3	2	2
	4	2	...	7	4	5	11	15
	1	2	...	2	3	4	4	10
	3		...	5	1	1	7	5
	46	22	13	4	6	13	13	32
	31	17	8	2	4	6	8	18
	31	5	5	2	2	7	5	14
		2	4	10	16	2	1	...
			1	7	8	1	...	...
	2	2	3	3	8	1	1	...
	8	7	17	54	73	25	14	3
	2	4	10	25	34	8	6	1
	2	3	7	29	39	17	8	2
	9	9	5	4	4	7	3	12
		3	4	2	...	4	1	6
	9	6	1	2	4	3	2	6
		...	...	1	...	...	1	...
		...	...	1	...	...	1	...
		...	...	...	...	...	...	...
	1	...	...	...	...	...	...	...
		...	...	...	...	...	...	...
	1	...	...	...	...	...	...	...

ages and sex, during the year 1901. (Stillbirths excluded.)

Ages in years under five.					Ages by five-year periods.																		Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.	
6,319	1121	530	348	253	8,571	786	675	1056	1301	1262	1151	1163	1196	1189	1374	1561	1740	2249	2241	2222	2980	117	
3,583	594	274	163	135	4,749	399	380	522	631	585	515	586	633	637	736	860	947	1240	1253	1204	1583	80	
2,730	526	256	185	118	3,815	387	295	534	670	677	636	577	563	552	638	701	793	1009	988	1018	1397	23	
6	1	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14	
2	2	2	8	5	19	30	45	85	103	83	61	60	29	30	19	11	12	15	5	5	3	...	1
1	...	...	4	3	8	18	28	44	71	47	43	43	14	19	11	8	5	7	3	3	1	...	
1	2	2	4	2	11	12	17	41	32	36	18	17	15	11	8	3	7	8	2	2	2	...	
...	2	1	1	...	4	...	1	4	6	3	1	1	...	1	1	1	...	1	1	3	1	1	1a
...	...	...	...	...	...	...	1	4	4	2	...	1	...	...	1	...	...	...	...	1	1	1	
...	2	1	1	...	4	...	...	...	2	1	1	...	...	1	...	1	...	1	1	2	...	...	
1	2	3	4	2	12	4	8	6	9	12	5	3	4	4	6	4	5	4	7	8	7	1	4
1	...	...	3	1	5	2	3	3	3	5	2	1	2	1	2	3	2	1	3	4	5	...	
...	2	3	1	1	7	2	5	3	6	7	3	2	2	3	4	1	3	3	4	4	2	1	
5	...	...	...	1	6	2	1	...	2	3	2	2	1	2	...	...	...	3	1	...	1	...	5
2	...	...	...	...	2	...	...	...	2	3	1	2	...	1	...	...	...	2	1	...	...	...	
3	...	...	...	1	4	2	1	...	1	...	1	...	1	1	...	...	...	1	...	...	1	...	
22	17	16	3	2	60	7	...	2	2	...	...	1	2	2	...	1	...	...	1	...	1	...	6
15	6	9	2	...	32	5	...	2	1	...	...	1	...	...	...	...	...	...	1	...	...	...	
7	11	7	1	2	28	2	...	...	1	...	...	...	2	2	...	1	...	...	...	...	1	...	
30	43	54	36	30	193	80	12	10	6	2	4	3	1	...	...	...	1	...	...	...	...	...	7
17	22	23	16	15	93	34	6	7	3	1	1	...	...	...	...	...	1	...	...	...	...	...	
13	21	31	20	15	100	46	6	3	3	1	3	3	1	...	...	...	...	...	...	...	...	...	
98	39	10	3	5	155	7	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8
45	21	4	...	1	71	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
53	18	6	3	4	84	4	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
11	24	34	36	34	139	112	59	18	8	10	5	2	2	2	...	...	1	1	...	...	...	...	9
7	11	23	17	20	78	51	28	12	4	5	1	1	1	2	...	...	1	...	...	...	...	...	
4	13	11	19	14	61	61	31	6	4	5	4	1	1	...	...	...	...	1	...	...	...	...	
21	8	6	4	9	48	6	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	
12	6	4	2	5	29	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
9	2	2	2	4	19	3	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	
4	12	19	17	7	59	22	4	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	
4	5	13	9	3	34	11	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
...	7	6	8	4	25	11	3	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	
113	17	10	3	3	146	12	9	19	17	17	22	26	27	27	48	55	82	112	98	159	222	1	10
57	10	5	1	2	75	7	6	12	7	9	6	11	19	12	24	16	40	53	47	80	102	1	
56	7	5	2	1	71	5	3	7	10	8	16	15	8	15	24	39	42	59	51	79	120	...	
4	1	1	1	1	8	5	...	...	1	...	...	...	...	1	3	1	3	4	3	4	5	...	13
4	1	1	1	...	7	1	...	...	...	...	...	...	...	...	2	1	...	2	2	2	...	...	
...	...	...	...	1	1	4	...	...	1	...	...	...	...	1	1	...	3	2	1	2	5	...	
41	23	8	5	1	78	3	...	1	3	1	3	2	2	...	6	5	10	16	20	21	41	...	14
22	17	2	2	1	44	2	...	...	2	1	2	...	...	...	1	4	5	6	8	11	16	...	
19	6	6	3	...	34	1	...	1	1	...	1	2	2	...	5	1	5	10	12	10	25	...	
23	1	...	1	...	25	...	3	3	2	2	5	5	9	7	9	7	7	7	8	7	10	...	1
10	1	...	...	...	11	...	2	1	...	1	...	3	6	4	5	4	3	5	4	5	7	...	
13	...	...	1	...	14	...	1	2	2	1	5	2	3	3	4	3	4	2	4	2	3	...	
1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	19a
1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
...	1	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19b
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
...	1	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

TABLE III.—Continued.—Causes of death in Michigan, by months,

Classification No.	Causes of death, 1901.	Sex.	Total deaths, 1901.	Months of death, 1901.											
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
19c	Mumps	Total.	5	...	1	1	...	...	...	...	...	...	...	...	2
		Males.	2	...	...	...	...	...	...	...	...	...	...	...	1
		Fem.	3	...	1	1	...	...	...	...	...	...	...	...	1
(19)	Other epidemic diseases	Total.	3	1	...	1	...	...	...	...	1	...	...	...	...
		Males.	1	...	...	...	...	...	...	...	...	...	...	...	...
		Fem.	2	...	...	1	...	...	...	...	1	...	...	...	...
20	Septicemia	Total.	116	4	13	14	13	15	8	6	8	15	10	4	6
		Males.	62	2	7	5	9	10	3	1	3	9	7	4	2
		Fem.	54	2	6	9	4	5	5	5	5	6	3	...	4
27	Tuberculosis of lungs	Total.	2,152	246	176	217	209	210	178	165	159	145	159	141	147
		Males.	958	114	81	105	82	96	76	77	68	63	69	66	61
		Fem.	1,194	132	95	112	127	114	102	88	91	82	90	75	86
26	Tuberculosis of larynx	Total.	22	1	2	5	3	2	1	3	...	...	2	2	1
		Males.	11	1	1	2	2	...	1	2	...	...	1	1	...
		Fem.	11	...	1	3	1	2	...	1	...	...	1	1	1
28	Tuberculous meningitis	Total.	93	4	3	7	11	12	9	2	7	7	11	11	9
		Males.	50	2	1	4	5	7	5	2	4	5	7	3	5
		Fem.	43	2	2	3	6	5	4	...	3	2	4	8	4
29	Abdominal tuberculosis	Total.	132	15	7	11	15	12	7	10	13	9	14	10	9
		Males.	58	3	3	4	9	6	3	5	5	3	5	8	6
		Fem.	74	12	4	7	6	6	4	5	8	6	9	4	3
30	Pott's disease	Total.	29	1	...	5	4	4	2	2	2	2	2	...	5
		Males.	20	1	...	3	2	4	1	2	2	2	1	...	2
		Fem.	9	...	...	2	2	...	1	...	...	...	1	...	3
31	Tuberculous abscess	Total.	3	1	...	...	...	1	...	...	...	...	...	...	1
		Males.	1	1	...	...	...	...	...	...	...	...	...	...	...
		Fem.	2	...	...	...	...	1	...	...	...	...	...	...	1
32	White swelling	Total.	17	3	2	1	1	1	1	1	1	1	1	2	2
		Males.	12	2	2	...	...	1	1	...	1	1	...	2	2
		Fem.	5	1	...	1	1	...	...	1	...	...	1	...	...
33	Tuberculosis of other organs	Total.	38	3	2	6	3	4	6	3	2	3	3	3	...
		Males.	24	2	2	4	1	1	3	2	1	3	3	2	...
		Fem.	14	1	...	2	2	3	3	1	1	...	...	1	...
34	General tuberculosis	Total.	46	3	5	6	8	4	3	4	1	4	3	2	3
		Males.	22	2	2	2	4	2	2	3	...	3	...	1	1
		Fem.	24	1	3	4	4	2	1	1	1	1	3	1	2
35	Scrofula	Total.	16	...	...	1	...	6	1	1	1	...	2	3	1
		Males.	7	...	...	1	...	3	...	1	1	...	1	...	...
		Fem.	9	...	...	...	...	3	1	...	...	...	1	3	1
36-38	Venereal diseases	Total.	88	8	7	4	3	9	6	5	6	9	10	13	8
		Males.	56	7	3	3	1	7	4	2	5	5	5	7	7
		Fem.	32	1	4	1	2	2	2	3	1	4	5	6	1
39	Cancer of mouth	Total.	38	4	4	5	3	2	3	1	2	3	4	3	4
		Males.	31	4	3	4	3	2	3	...	2	1	2	3	4
		Fem.	7	...	1	1	...	...	...	1	...	2	2	...	...
40	Cancer of stomach and liver	Total.	612	41	47	56	48	59	41	55	47	57	51	56	54
		Males.	351	24	24	25	25	36	22	33	25	37	37	29	34
		Fem.	261	17	23	31	23	23	19	22	22	20	14	27	20
41	Cancer of intestines	Total.	137	11	13	6	10	13	9	17	18	10	9	13	8
		Males.	56	6	7	2	2	4	5	8	6	7	2	5	2
		Fem.	81	5	6	4	8	9	4	9	12	3	7	8	6
42	Cancer of genital organs	Total.	237	20	16	15	17	24	20	13	21	23	23	21	24
		Males.	4	...	...	...	...	...	1	...	1	2	...	...	...
		Fem.	233	20	16	15	17	24	19	13	20	21	23	21	24

ages and sex, during the year 1901. (Stillbirths excluded.)

Ages in years under five.					Ages by five-year periods.																		Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.	
1	1	1	....	....	3	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	..	19c
1	....	1	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	1	....	....	....	1	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	1	....	..	(19)
....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	..	
12	2	3	....	2	19	2	1	7	9	10	11	11	6	5	2	4	4	6	12	5	1	1	20
6	1	2	....	2	11	1	....	2	3	4	3	6	3	3	1	3	3	5	10	3	....	1	
6	1	1	....	....	8	1	1	5	6	6	8	5	3	2	1	1	1	1	2	2	1	..	
25	11	11	3	4	54	19	48	250	324	308	248	181	169	124	111	102	82	53	31	39	8	1	27
12	5	4	1	1	23	5	16	71	134	125	111	81	97	71	55	51	42	32	18	20	5	1	
13	6	7	2	3	31	14	32	179	190	183	137	100	72	53	56	51	40	21	13	19	3	..	
....	....	1	....	....	1	....	....	2	2	1	4	1	3	1	1	4	1	....	....	1	....	..	26
....	....	....	....	....	....	....	....	1	2	1	....	....	2	1	....	3	1	....	....	....	....	..	
....	....	1	....	....	1	....	....	1	....	....	4	1	1	....	1	1	....	....	....	1	....	..	
25	23	5	6	3	62	14	5	2	3	2	1	1	1	1	....	1	....	....	....	....	....	..	28
13	15	3	3	2	36	8	1	1	1	1	....	....	1	....	....	1	....	....	....	....	....	..	
12	8	2	3	1	26	6	4	1	2	1	1	1	....	1	....	....	....	....	....	....	....	..	
9	3	....	....	....	12	2	4	11	17	11	10	10	4	11	9	6	4	11	....	6	1	..	29
6	2	....	....	....	8	1	3	1	9	6	3	3	1	6	4	2	3	6	....	1	1	..	
3	1	....	....	....	4	1	1	10	8	8	7	7	3	5	5	4	1	5	....	5	....	..	
1	....	....	....	....	1	....	1	3	2	3	5	2	2	2	3	2	1	1	....	....	1	..	30
1	....	....	....	....	1	....	1	2	2	2	3	....	1	1	3	1	1	1	....	....	1	..	
....	....	....	....	....	....	....	....	1	....	1	2	2	1	1	....	1	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	1	....	..	31
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	..	
....	....	....	....	....	....	1	2	2	2	2	1	....	1	3	1	1	....	....	....	1	....	..	32
....	....	....	....	....	....	1	2	2	2	1	1	....	1	....	1	....	....	....	....	1	....	..	
....	....	....	....	....	....	....	....	....	....	1	....	....	....	3	....	1	....	....	....	....	....	..	
....	1	1	....	....	2	2	4	3	4	1	5	1	4	1	3	1	3	1	1	1	1	..	33
....	1	....	....	....	1	2	2	2	2	1	3	1	3	1	1	....	2	1	....	1	1	..	
....	....	1	....	....	1	....	2	1	2	....	2	....	1	....	2	1	1	....	1	....	....	..	
1	1	1	1	....	4	....	....	8	8	6	7	1	2	1	4	2	....	2	....	1	....	..	34
1	....	....	....	....	1	....	....	2	3	2	5	1	1	1	4	....	....	1	....	....	....	..	
....	1	1	1	....	3	....	....	6	5	3	2	....	1	....	....	2	....	1	....	1	....	..	
6	1	....	1	....	8	2	....	1	....	....	....	1	....	1	1	....	....	1	1	....	....	..	35
4	....	....	....	....	4	1	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	..	
2	1	....	1	....	4	1	....	1	....	....	....	1	....	1	....	....	....	1	....	....	....	..	
47	1	....	....	....	48	1	2	2	3	1	11	6	3	1	2	3	1	1	2	1	....	..	36-38
29	1	....	....	....	30	1	2	1	....	1	9	3	1	....	1	3	....	1	2	1	....	..	
18	....	....	....	....	18	....	....	1	3	....	2	3	2	1	1	....	1	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	2	2	2	8	6	8	8	..	39
....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	2	2	1	6	6	7	6	..	
....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	2	....	1	2	..	
1	....	....	1	....	2	1	2	1	4	3	9	21	36	47	58	93	85	96	85	48	20	1	40
1	....	....	1	....	2	....	....	1	3	2	3	11	21	28	34	56	50	55	44	27	14	..	
....	....	....	....	....	....	1	2	....	1	1	6	10	15	19	24	37	35	41	41	21	6	1	
....	....	....	....	....	....	....	....	4	2	3	3	5	11	15	15	11	22	19	15	7	5	..	41
....	....	....	....	....	....	....	....	3	....	1	1	1	7	6	6	4	8	7	5	2	5	..	
....	....	....	....	....	....	....	....	1	2	2	2	4	4	9	9	7	14	12	10	5	....	..	
....	....	....	....	....	....	....	....	....	....	4	12	24	31	35	36	33	21	20	12	4	4	1	42
....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	....	1	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	4	12	24	30	34	35	33	20	20	12	4	4	1	

TABLE III.—Continued.—Causes of death in Michigan, by months,

Classification No.	Causes of death, 1901.	Sex.	Total deaths, 1901.	Months of death, 1901.											
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
43	Cancer of breast	Total.	149	11	20	12	9	8	14	9	16	12	12	13	13
		Males.	5	1	.....	.....	.....	1	.....	1	.....	1	.....	.....	1
		Fem..	144	10	20	12	9	7	14	8	16	11	12	13	12
44	Cancer of skin...	Total.	76	6	3	4	2	5	7	8	8	9	8	6	10
		Males.	53	3	.....	2	1	5	6	7	5	6	7	4	7
		Fem..	23	3	3	2	1	.....	1	1	3	3	1	2	3
45	Cancer of other organs.....	Total.	235	17	19	25	14	31	16	22	17	20	17	17	20
		Males.	137	9	13	13	6	18	9	9	10	11	16	12	11
		Fem..	98	8	6	12	8	13	7	13	7	9	1	5	9
46	Tumors.....	Total.	40	1	2	3	4	3	8	.....	4	4	5	4	2
		Males.	14	1	.....	.....	1	2	3	.....	2	1	3	.....	1
		Fem..	26	.....	2	3	3	1	5	.....	2	3	2	4	1
47, 48	Rheumatism.....	Total.	221	24	20	30	29	17	18	15	12	17	13	14	12
		Males.	105	7	6	18	14	11	6	9	4	7	10	7	6
		Fem..	116	17	14	12	15	6	12	6	8	10	3	7	6
50	Diabetes.....	Total.	264	31	23	28	23	18	20	19	14	16	21	26	25
		Males.	142	19	17	15	8	12	12	8	4	11	12	9	15
		Fem..	122	12	6	13	15	6	8	11	10	5	9	17	10
53, 54	Anemia.....	Total.	195	19	14	20	23	18	22	19	13	14	8	14	11
		Males.	76	10	5	7	9	3	7	5	5	6	4	8	7
		Fem..	119	9	9	13	14	15	15	14	8	8	4	6	4
56	Alcoholism.....	Total.	62	8	.....	2	6	1	5	7	3	7	7	6	10
		Males.	55	7	.....	2	6	1	4	6	2	7	7	6	7
		Fem..	7	1	.....	.....	.....	.....	1	1	1	.....	.....	.....	3
57-59	Chronic poisonings.....	Total.	18	1	1	2	.....	1	4	1	3	.....	1	1	3
		Males.	9	1	1	.....	.....	.....	2	1	2	.....	.....	1	1
		Fem..	9	.....	.....	2	.....	1	2	.....	1	.....	1	.....	2
55, etc.	Other general diseases.....	Total.	51	1	4	4	3	6	7	5	5	6	5	2	3
		Males.	18	.....	1	3	2	2	1	1	2	1	1	1	3
		Fem..	33	1	3	1	1	4	6	4	3	5	4	1	.....
60	Encephalitis.....	Total.	82	5	10	6	6	8	13	4	7	6	6	3	8
		Males.	44	2	6	2	2	5	8	3	4	2	4	1	5
		Fem..	38	3	4	4	4	3	5	1	3	4	2	2	3
61	Meningitis.....	Total.	427	37	21	46	41	42	36	51	37	42	25	20	29
		Males.	233	19	13	23	25	16	21	33	21	27	12	8	15
		Fem..	194	18	8	23	16	26	15	18	16	15	13	12	14
62	Locomotor ataxia	Total.	39	4	2	6	2	3	7	.....	2	4	2	3	4
		Males.	27	2	.....	6	1	3	5	.....	1	2	2	2	3
		Fem..	12	2	2	.....	1	.....	2	.....	1	2	.....	1	1
63	Other diseases of spinal cord..	Total.	131	13	11	9	11	13	9	14	13	12	9	12	5
		Males.	79	6	6	6	6	7	6	9	7	9	5	8	4
		Fem..	52	7	5	3	5	6	3	5	6	3	4	4	1
64	Apoplexy.....	Total.	1,243	109	111	125	110	108	93	73	91	97	105	99	122
		Males	668	63	64	64	62	55	48	37	47	58	58	46	66
		Fem..	575	46	47	61	48	53	45	36	44	39	47	53	56
65	Softening of brain.....	Total.	105	9	13	8	9	9	6	9	8	12	7	9	6
		Males.	63	5	10	6	5	6	3	5	2	7	4	7	3
		Fem..	42	4	3	2	4	3	3	4	6	5	3	2	3
66	Paralysis.....	Total.	799	76	81	86	76	61	63	56	41	67	68	56	68
		Males.	421	33	43	46	50	28	36	34	18	35	35	27	36
		Fem..	378	43	38	40	26	33	27	22	23	32	33	29	32
67	General paralysis of insane....	Total.	139	10	14	22	11	14	8	14	7	6	7	12	14
		Males.	98	8	10	17	6	10	5	10	5	6	2	8	11
		Fem..	41	2	4	5	5	4	3	4	2	.....	5	4	3

ages and sex, during the year 1901. (Stillbirths excluded.)

Ages in years under five.					Ages by five-year periods.																	Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.	
....	....	....	....	....	....	....	1	....	....	1	2	8	21	8	16	17	16	14	14	20	11	..	43
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	2	1	..	
....	....	....	....	....	....	....	1	....	....	1	2	8	21	8	16	17	15	13	14	18	10	..	
1	....	1	....	....	2	....	....	....	....	1	1	1	....	4	4	3	7	13	14	7	19	..	44
1	....	....	....	....	1	....	....	....	....	1	1	1	....	3	2	3	3	9	9	5	15	..	
....	....	1	....	....	1	....	....	....	....	....	....	....	....	1	2	....	4	4	5	2	4	..	
2	....	3	2	...	7	3	1	1	7	4	8	9	11	11	24	22	33	37	22	15	19	1	45
1	....	2	....	....	3	2	....	1	5	3	4	6	6	4	12	12	18	18	13	12	17	1	
1	....	1	2	....	4	1	1	....	2	1	4	3	5	7	12	10	15	19	9	3	2	..	
....	....	....	....	....	....	....	....	....	....	1	....	3	2	5	4	6	7	4	5	2	1	..	46
....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	1	2	4	....	2	1	1	..	
....	....	....	....	....	....	....	....	....	....	1	....	3	2	2	3	4	3	4	3	1	....	..	
1	1	2	2	....	6	14	19	11	6	5	7	9	13	6	6	12	25	23	26	15	18	..	47, 48
1	1	....	1	....	3	7	10	5	3	....	3	5	6	1	6	4	8	16	14	7	7	..	
....	....	2	1	....	3	7	9	6	3	5	4	4	7	5	....	8	17	7	12	8	11	..	
5	....	3	....	1	9	12	17	11	14	15	12	15	12	14	18	18	21	37	20	11	8	..	50
2	....	2	....	....	4	5	7	8	9	8	5	9	8	10	5	9	12	22	11	4	6	..	
3	....	1	....	1	5	7	10	3	5	7	7	6	4	4	13	9	9	15	9	7	2	..	
25	5	3	1	....	34	3	5	8	11	9	12	13	13	13	14	10	10	16	13	5	6	..	53–54
14	2	1	....	....	17	2	2	3	1	2	3	2	3	2	9	3	5	9	8	2	3	..	
11	3	2	1	....	17	1	3	5	10	7	9	11	10	11	5	7	5	7	5	3	3	..	
....	....	....	....	....	....	....	....	....	....	3	5	9	10	8	5	7	1	6	3	1	2	2	56
....	....	....	....	....	....	....	....	....	....	3	4	5	10	7	4	7	1	6	3	1	2	2	
....	....	....	....	....	....	....	....	....	....	....	1	4	....	1	1	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	1	....	3	....	2	...	4	3	....	5	....	..	57–59
....	....	....	....	....	....	....	....	....	....	....	....	....	3	....	1	....	2	1	....	2	....	..	
....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	2	2	....	3	....	..	
1	....	....	1	....	2	1	1	2	4	3	3	6	4	9	4	3	....	4	2	2	1	..	55, etc.
1	....	....	....	....	1	....	1	1	....	1	....	3	2	2	2	1	....	1	2	1	....	..	
....	....	....	1	....	1	1	....	1	4	2	3	3	2	7	2	2	....	3	...	1	4	..	
25	8	8	5	2	48	4	4	7	3	2	3	....	2	1	1	3	1	....	2	....	1	..	60
15	5	4	2	1	27	2	1	3	2	1	2	....	1	1	....	2	....	....	2	....	....	..	
10	3	4	3	1	21	2	3	4	1	1	1	....	1	....	1	1	1	.....	.....	....	1	..	
138	62	23	18	16	257	40	15	23	17	11	12	13	8	9	3	4	1	5	3	4	2	..	61
88	34	10	10	7	149	18	7	10	8	7	6	6	4	3	2	3	....	4	2	3	1	..	
50	28	13	8	9	108	22	8	13	9	4	6	7	4	6	1	1	1	1	1	1	1	..	
....	....	....	....	....	....	....	....	....	1	1	3	4	2	3	4	5	10	3	1	1	1	..	62
....	....	....	....	....	....	....	....	....	....	1	2	2	2	2	3	4	6	3	1	1	....	..	
....	....	....	....	....	....	....	....	....	1	....	1	2	....	1	1	1	4	....	....	....	1	..	
9	3	3	2	2	19	4	1	2	3	4	....	4	4	15	8	11	9	22	10	8	6	1	63
5	2	1	1	1	10	4	1	1	2	2	....	4	1	9	2	7	6	14	8	4	4	..	
4	1	2	1	1	9	....	....	1	1	2	....	....	3	6	6	4	3	8	2	4	2	1	
37	8	5	5	1	56	5	12	4	14	11	18	17	23	45	71	108	122	191	187	169	185	5	64
27	7	2	1	1	38	....	4	1	4	6	7	8	13	21	36	61	71	97	111	92	96	2	
10	1	3	4	....	18	5	8	3	10	5	11	9	10	24	35	47	51	94	76	77	89	3	
1	....	....	....	....	1	....	....	....	....	1	....	2	2	4	3	1	11	22	17	23	18	..	65
....	....	....	....	....	....	....	....	....	....	....	....	2	1	2	....	1	7	12	13	14	11	..	
1	....	....	....	....	1	....	....	....	....	1	....	....	1	2	3	....	4	10	4	9	7	..	
6	....	1	1	1	9	....	6	3	5	4	6	14	24	25	33	66	69	96	135	130	172	2	66
4	....	1	1	....	6	....	4	3	1	2	3	6	12	11	16	33	38	48	74	76	86	2	
2	....	....	....	1	3	....	2	....	4	2	3	8	12	14	17	33	31	48	61	54	86	..	
....	....	....	....	....	....	....	....	....	....	....	6	6	18	16	8	14	13	13	16	14	12	3	67
....	....	....	....	....	....	....	....	....	....	....	5	6	15	10	6	13	8	7	10	9	7	2	
....	....	....	....	....	....	....	....	....	....	....	1	....	3	6	2	1	5	6	6	5	5	1	

TABLE III.—Continued.—Causes of death in Michigan, by months.

Classification No.	Causes of death, 1901.	Sex.	Total deaths, 1901.	Months of death, 1901.											
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
68	Other forms of mental disease	Total.	80	5	7	10	9	4	3	6	3	9	8	6	10
		Males.	40	2	2	2	6	1	3	3	2	7	4	3	5
		Fem..	40	3	5	8	3	3	.....	3	1	2	4	3	5
(74)	Other diseases of the brain...	Total.	98	10	11	8	11	9	3	12	9	8	4	7	6
		Males.	56	7	5	5	3	5	1	4	9	7	2	3	5
		Fem..	42	3	6	3	8	4	2	8	.....	1	2	4	1
69	Epilepsy.....	Total.	177	12	19	15	18	15	17	12	13	13	7	16	20
		Males.	99	6	11	8	13	11	7	10	7	3	4	8	11
		Fem..	78	6	8	7	5	4	10	2	6	10	3	8	9
70, 71	Convulsions.....	Total.	550	49	46	68	49	45	58	56	34	39	30	39	37
		Males.	301	31	29	38	35	23	29	27	16	19	17	23	14
		Fem..	249	18	17	30	14	22	29	29	18	20	13	16	23
72	Tetanus.....	Total.	31	3	3	3	1	1	4	4	2	2	4	2	2
		Males.	23	3	1	2	1	1	4	3	1	2	2	2	1
		Fem..	8	.....	2	1	.....	.....	.....	1	1	.....	2	.....	1
73-76	Other diseases of nervous system	Total.	111	11	8	14	9	11	11	6	7	6	11	9	8
		Males.	61	5	4	9	7	5	6	3	4	4	6	5	3
		Fem..	50	6	4	5	2	6	5	3	3	2	5	4	5
77	Pericarditis.....	Total.	55	4	7	8	7	4	5	3	2	5	2	3	5
		Males.	35	2	5	5	6	2	3	2	2	2	.....	2	4
		Fem..	20	2	2	3	1	2	2	1	.....	3	2	1	1
78	Endocarditis....	Total.	102	9	7	4	12	12	9	8	8	9	9	8	7
		Males.	52	5	1	.....	4	6	5	6	6	6	6	4	3
		Fem..	50	4	6	4	8	6	4	2	2	3	3	4	4
79	Heart disease...	Total.	2,691	246	240	236	259	246	212	201	196	209	183	222	241
		Males.	1,521	127	154	128	146	135	116	116	118	116	99	120	146
		Fem..	1,170	119	86	108	113	111	96	85	78	93	84	102	95
80	Angina pectoris	Total.	192	14	16	21	11	23	20	10	10	19	17	15	16
		Males.	108	8	9	15	6	13	8	6	7	11	9	7	9
		Fem..	84	6	7	6	5	10	12	4	3	8	8	8	7
81	Diseases of arteries.	Total.	117	8	11	9	8	8	8	10	7	12	11	17	8
		Males.	80	4	10	7	5	6	4	6	4	8	7	14	5
		Fem..	37	4	1	2	3	2	4	4	3	4	4	3	3
82	Embolism and thrombosis....	Total.	60	7	7	9	2	8	3	5	4	4	6	4	1
		Males.	31	3	3	3	2	6	1	3	2	2	4	2	.....
		Fem..	29	4	4	6	.....	2	2	2	2	2	2	2	1
83	Diseases of veins	Total.	14	3	3	.....	.....	2	2	.....	1	.....	1	1	1
		Males.	6	2	1	.....	.....	.....	1	.....	.....	.....	1	.....	1
		Fem..	8	1	2	.....	.....	2	1	.....	1	.....	.....	1	.....
84	Diseases of lymphatics....	Total.	5	.....	.....	1	.....	2	.....	.....	.....	1	.....	.....	1
		Males.	4	.....	.....	1	.....	1	.....	.....	.....	1	.....	.....	1
		Fem..	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
85, 86	Other diseases of circulatory system	Total.	55	5	5	8	2	8	5	6	3	1	.....	9	3
		Males.	29	4	3	4	2	5	.....	2	2	1	.....	3	3
		Fem..	26	1	2	4	.....	3	5	4	1	.....	.....	6	.....
88a	Laryngitis.....	Total.	31	2	4	2	3	2	.....	2	.....	2	6	4	4
		Males.	23	.....	2	2	3	2	.....	2	.....	1	4	4	3
		Fem..	8	2	2	.....	.....	.....	.....	.....	.....	1	2	.....	1
(88)	Other diseases of the larynx..	Total.	29	4	2	1	5	2	.....	4	1	1	5	2	2
		Males.	16	2	.....	1	5	.....	.....	3	1	1	2	.....	1
		Fem..	13	2	2	.....	.....	2	.....	1	.....	.....	3	2	1
89	Diseases of the thyroid body..	Total.	11	4	1	1	1	1	1	.....	.....	.....	1	1	.....
		Males.	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem..	10	3	1	1	1	1	1	.....	.....	.....	1	1	.....

ages and sex, during the year 1901. (Stillbirths excluded.)

Ages in years under five.					Ages by five-year periods.																		Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 6.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.	
....	....	....	....	....	....	....	1	4	2	....	2	6	8	3	7	5	6	11	15	5	5	..	68
....	....	....	....	....	....	....	....	2	1	....	1	4	1	1	3	4	3	7	7	4	2	..	
....	....	....	....	....	....	....	1	2	1	....	1	2	7	2	4	1	3	4	8	1	3	..	
9	....	1	....	....	10	9	2	5	2	3	6	3	6	10	6	10	5	5	8	2	5	1	(74)
7	....	1	....	....	8	6	1	2	1	2	2	....	3	6	4	5	4	3	3	1	4	1	
2	....	....	....	....	2	3	1	3	1	1	4	3	3	4	2	5	1	2	5	1	1	..	
9	1	....	2	....	12	4	11	12	14	22	9	17	13	10	9	9	7	5	10	7	3	3	69
5	1	....	1	....	7	3	6	9	10	11	3	7	6	5	5	5	3	4	6	4	2	3	
4	....	....	1	....	5	1	5	3	4	11	6	10	7	5	4	4	4	1	4	3	1	..	
658	46	18	1	2	525	7	2	2	4	1	....	1	1	....	1	....	2	....	2	....	2	..	70, 71
261	19	8	1	1	290	5	1	....	1	....	....	....	1	....	....	....	....	....	1	....	2	..	
197	27	10	....	1	235	2	1	2	3	1	....	1	....	....	1	....	2	....	1	....	....	..	
12	1	....	....	....	13	3	4	2	1	1	1	1	....	1	....	1	1	1	....	....	1	..	72
8	1	....	....	....	9	2	3	2	....	1	1	1	....	1	....	1	1	....	....	....	1	..	
4	....	....	....	....	4	1	1	....	1	....	....	....	....	....	....	....	....	1	....	....	....	..	
13	3	2	1	2	21	7	3	8	2	3	2	8	3	8	7	8	11	6	5	4	5	..	73, 76
7	2	1	1	2	13	2	1	4	1	2	1	5	1	5	3	6	8	3	2	1	3	..	
6	1	1	....	....	8	5	2	4	1	1	1	3	2	3	4	2	3	3	3	3	2	..	
1	....	....	1	1	3	3	2	1	2	1	2	2	2	1	2	6	....	7	4	12	5	..	77
....	....	....	....	1	1	1	....	1	2	1	2	1	1	1	1	4	....	4	3	9	3	..	
1	....	....	1	....	2	2	2	....	....	....	....	1	1	....	1	2	....	3	1	3	2	..	
1	....	1	3	1	6	2	4	4	8	1	7	4	7	2	5	7	15	9	9	9	3	..	78
1	....	1	1	1	4	1	3	3	1	....	2	2	1	....	4	4	8	5	6	6	2	..	
....	....	....	2	....	2	1	1	1	7	1	5	2	6	2	1	3	7	4	3	3	1	..	
58	7	1	7	2	75	12	41	27	35	37	53	73	105	123	171	227	279	379	372	355	321	6	79
35	4	1	2	1	43	4	20	14	18	13	29	34	57	75	95	125	162	227	216	200	184	5	
23	3	....	5	1	32	8	21	13	17	24	24	39	48	48	76	102	117	152	156	155	137	1	
1	....	1	....	....	2	....	....	2	7	6	4	6	7	11	18	22	19	30	25	17	16	..	80
1	....	....	....	....	1	....	....	....	1	3	1	1	5	5	11	16	11	17	13	13	10	..	
....	....	1	....	....	1	....	....	2	6	3	3	5	2	6	7	6	8	13	12	4	6	..	
1	....	....	....	....	1	....	....	2	....	1	1	2	2	4	4	10	9	16	19	18	28	..	81
....	....	....	....	....	....	....	....	1	....	1	....	....	....	2	3	6	9	11	13	13	21	..	
1	....	....	....	....	1	....	....	1	....	....	1	2	2	2	1	4	....	5	6	5	7	..	
2	....	....	....	....	2	1	1	3	1	2	4	1	3	1	2	4	7	6	7	8	7	..	82
1	....	....	....	....	1	1	....	2	....	1	1	....	2	....	1	2	3	5	4	5	3	..	
1	....	....	....	....	1	....	1	1	1	1	3	1	1	1	1	2	4	1	3	3	4	..	
....	....	....	....	....	....	....	....	1	1	1	2	2	....	....	1	1	3	....	1	....	1	..	83
....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	1	1	1	....	1	....	....	..	
....	....	....	....	....	....	....	....	1	....	1	1	2	....	....	....	....	2	....	....	....	1	..	
2	2	....	....	....	4	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	..	84
2	1	....	....	....	3	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	..	
....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
30	2	1	1	1	25	1	....	3	4	1	2	2	....	1	2	3	2	6	3	....	....	..	85, 86
8	1	1	1	1	12	....	....	3	1	....	2	2	....	....	....	2	....	4	3	....	....	..	
12	1	....	....	....	13	1	....	....	3	1	....	....	....	1	2	1	2	2	....	....	....	..	
5	2	1	6	2	16	6	2	2	2	....	....	....	1	....	....	1	....	....	1	....	....	..	88a
3	1	....	5	2	11	5	2	1	2	....	....	....	....	....	....	1	....	....	1	....	....	..	
2	1	1	1	....	5	1	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	..	
7	6	2	4	....	19	6	1	....	....	....	....	....	....	....	....	1	....	....	....	1	....	1	(88)
5	4	....	....	....	9	3	1	....	....	....	....	....	....	....	....	1	....	....	....	1	....	1	
2	2	2	4	....	10	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
2	....	....	....	....	2	....	....	....	....	....	....	....	1	....	2	....	4	1	....	....	1	..	89
1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
1	....	....	....	....	1	....	....	....	....	....	....	....	1	....	2	....	4	1	....	....	1	..	

TABLE III.—Continued.—Causes of death in Michigan, by months,

Classification No.	Causes of death, 1901.	Sex.	Total deaths, 1901.	Months of death, 1901.											
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
90	Acute bronchitis	Total.	535	92	89	93	63	32	22	11	7	18	17	42	49
		Males.	276	50	39	47	37	20	14	7	4	6	7	21	24
		Fem..	259	42	50	46	26	12	8	4	3	12	10	21	25
91	Chronic bronchitis.....	Total.	334	41	27	41	36	32	30	13	15	18	23	23	35
		Males.	130	15	10	17	13	10	17	7	2	12	8	6	13
		Fem..	204	26	17	24	23	22	13	6	13	6	15	17	22
92	Broncho-pneumonia.....	Total.	489	74	69	101	50	32	24	10	9	10	31	29	50
		Males.	239	39	40	49	19	18	8	5	5	6	14	13	23
		Fem..	250	35	29	52	31	14	16	5	4	4	17	16	27
93	Pneumonia.....	Total.	2,412	334	397	372	311	197	121	54	39	68	96	155	268
		Males.	1,352	174	230	213	171	119	72	28	23	35	59	78	150
		Fem..	1,060	160	167	159	140	78	49	26	16	33	37	77	118
94	Pleurisy.....	Total.	89	10	7	7	11	8	6	8	4	5	8	6	9
		Males.	41	6	2	3	3	4	4	4	4	.....	4	4	3
		Fem..	48	4	5	4	8	4	2	4	.....	5	4	2	6
95	Congestion of lungs.....	Total.	194	26	21	24	23	15	12	3	10	12	15	12	21
		Males.	102	14	4	11	13	10	7	3	6	9	7	6	12
		Fem..	92	12	17	13	10	5	5	.....	4	3	8	6	9
96	Gangrene of lungs.....	Total.	11	.....	2	3	2	1	.....	1	1	1	.....	.....	.....
		Males.	8	.....	1	3	2	1	.....	.....	1	.....	.....	.....	.....
		Fem..	3	.....	1	.....	.....	.....	.....	1	.....	1	.....	.....	.....
97,98	Asthma and emphysema....	Total.	122	20	10	9	13	7	6	4	6	8	13	8	18
		Males.	60	10	5	5	6	5	2	4	5	1	8	3	6
		Fem.	62	10	5	4	7	2	4	.....	1	7	5	5	12
99a	Hemorrhage of lungs.....	Total.	39	2	3	1	3	6	3	7	4	2	4	3	1
		Males.	26	.....	2	.....	2	5	3	3	4	2	2	3	.....
		Fem..	13	2	1	1	1	1	.....	4	.....	.....	2	.....	1
(99)	Other diseases of respiratory organs.....	Total.	81	8	11	8	5	8	3	3	5	8	8	6	8
		Males.	44	3	6	3	5	5	2	1	2	3	6	4	4
		Fem..	37	5	5	5	.....	3	1	2	3	5	2	2	4
100	Diseases of the mouth.....	Total.	28	1	1	.....	4	2	2	1	1	9	3	3	1
		Males.	20	.....	1	.....	1	2	.....	1	.....	9	3	2	1
		Fem .	8	1	.....	.....	3	.....	2	.....	1	.....	.....	1	.....
101a	Tonsilitis.....	Total.	30	2	1	3	4	1	1	1	3	7	2	2	3
		Males.	14	.....	1	1	3	.....	1	1	1	2	1	1	2
		Fem..	16	2	.....	2	1	1	.....	.....	2	5	1	1	1
(101)	Other diseases of pharynx.....	Total.	29	2	2	3	4	4	1	2	2	3	2	1	3
		Males.	14	1	2	2	2	1	.....	.....	1	2	1	.....	2
		Fem..	15	1	.....	1	2	3	1	2	1	1	1	1	1
103	Ulcer of stomach	Total.	75	9	5	7	5	11	4	5	5	10	4	7	3
		Males.	36	3	3	4	3	6	2	2	3	5	1	2	2
		Fem..	39	6	2	3	2	5	2	3	2	5	3	5	1
104a	Gastritis.....	Total.	189	15	16	16	18	29	8	14	16	12	17	13	15
		Males.	84	4	7	7	10	14	.....	3	12	4	7	7	9
		Fem..	105	11	9	9	8	15	8	11	4	8	10	6	6
(104)	Other diseases of stomach.....	Total.	244	21	12	25	25	31	22	21	18	19	15	16	19
		Males.	130	13	6	13	10	15	11	13	11	10	8	13	7
		Fem..	114	8	6	12	15	16	11	8	7	9	7	3	12
	Dentition	Total.	9	1	1	1	1	1	.....	.....	.....	1	1	1	1
		Males.	5	1	1	.....	.....	.....	.....	.....	.....	1	1	.....	1
		Fem..	4	.....	.....	1	1	1	.....	.....	.....	.....	.....	1	.....
105	Diarrhea and enteritis (under 2 years).....	Total.	1,768	47	40	55	57	61	107	255	430	451	69	50	46
		Males.	988	29	21	23	33	38	57	157	244	240	93	26	27
		Fem..	779	18	19	32	24	23	50	98	185	211	76	24	19
		Unk...	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....

39	[illegible]	[illegible]	[illegible]		[illegible]
21	4	[illegible]	[illegible]		[illegible]
15	3	....	[illegible]		[illegible]
82	16	1	...		[illegible]
45	10	...	..	...	55
37	6	1		..	44
4	4	1	....	..	[illegible]
2	2	1	.		5
2	2	...	...		4
1474	293	....	....	....	[illegible]
832	156	....	....	...	[illegible]
612	136	....	...		[illegible]
....	1	....	...	....	1

TABLE III.-Continued.—Causes of death in Michigan, by months,

Classification No.	Causes of death, 1901.	Sex.	Total deaths, 1901.	Months of death, 1901.											
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
106	Diarrhea and enteritis (over 2 years)	Total.	526	30	28	35	33	31	32	40	81	100	58	31	27
		Males.	268	18	16	18	16	12	17	23	36	53	30	14	15
		Fem..	258	12	12	17	17	19	15	17	45	47	28	17	12
108a	Hernia	Total.	93	10	8	9	10	5	9	10	7	5	5	11	4
		Males.	52	7	6	2	5	4	5	5	6	2	4	4	2
		Fem..	41	3	2	7	5	1	4	5	1	3	1	7	2
(108)	Obstruction of intestines	Total.	239	18	18	19	16	21	23	19	11	25	24	16	29
		Males.	116	7	7	10	7	10	13	11	2	14	10	8	17
		Fem..	123	11	11	9	9	11	10	8	9	11	14	8	12
107, 109	Other diseases of intestines	Total.	76	7	10	7	8	5	5	3	7	5	11	3	5
		Males.	36	4	4	3	3	2	2	2	5	1	8	1	1
		Fem..	40	3	6	4	5	3	3	1	2	4	3	2	4
110	Acute yellow atrophy of liver	Total.	18	1	2	.....	2	.....	3	2	2	1	4	1	.....
		Males.	8	.....	1	.....	.....	.....	1	1	2	.....	2	1	.....
		Fem..	10	1	1	.....	2	.....	2	1	.....	1	2	.....	.....
111	Hydatid tumors of liver	Total.	0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Males.	0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem..	0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
112	Cirrhosis of liver.	Total.	211	17	17	16	23	21	17	19	24	13	17	15	12
		Males.	129	9	12	9	13	13	10	12	11	7	13	12	8
		Fem..	82	8	5	7	10	8	7	7	13	6	4	3	4
113	Biliary calculi	Total.	49	2	6	3	4	3	5	4	5	8	3	2	4
		Males	13	1	3	1	.....	1	1	1	2	1	1	1	.....
		Fem..	36	1	3	2	4	2	4	3	3	7	2	1	4
114	Other diseases of liver	Total.	220	22	17	20	21	10	14	17	16	22	21	17	23
		Males.	121	13	10	10	11	5	11	11	6	11	11	7	15
		Fem..	99	9	7	10	10	5	3	6	10	11	10	10	8
115	Diseases of spleen	Total.	7	.....	.....	1	1	1	1	.....	1	.....	.....	1	1
		Males.	3	.....	.....	1	.....	1	1	.....	.....	.....	.....	.....	.....
		Fem..	4	.....	.....	.....	1	.....	.....	.....	1	.....	.....	1	1
116	Peritonitis	Total.	277	26	22	28	23	28	24	20	23	25	22	16	20
		Males.	121	9	11	7	5	9	16	10	12	13	10	8	11
		Fem..	156	17	11	21	18	19	8	10	11	12	12	8	9
118	Appendicitis	Total.	263	21	15	23	29	26	17	19	34	19	25	16	19
		Males.	155	12	5	12	15	19	13	10	20	11	17	11	10
		Fem..	108	9	10	11	14	7	4	9	14	8	8	5	9
117	Other diseases of digestive system	Total.	3	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	1
		Males.	2	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
		Fem..	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
119	Acute nephritis	Total.	71	9	2	9	6	8	7	2	6	4	5	5	8
		Males.	42	6	1	6	4	2	4	2	4	3	4	3	3
		Fem..	29	3	1	3	2	6	3	.....	2	1	1	2	5
120	Bright's disease	Total.	1,050	106	82	100	79	100	84	75	89	82	77	78	98
		Males.	617	65	44	56	46	56	52	39	45	48	45	53	68
		Fem..	433	41	38	44	33	44	32	36	44	34	32	25	30
121	Other diseases of kidneys	Total.	107	16	11	1	15	5	8	8	8	9	10	8	8
		Males.	71	9	5	.....	13	4	5	6	6	7	8	4	4
		Fem..	36	7	6	1	2	1	3	2	2	2	2	4	4
122	Calculi of urinary tract	Total.	14	2	.....	1	1	.....	4	2	2	1	1	.....	.....
		Males.	11	1	.....	1	1	.....	3	1	2	1	1	.....	.....
		Fem..	3	1	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....
123	Diseases of bladder	Total.	138	12	9	16	9	14	13	15	11	11	7	8	13
		Males.	123	11	7	14	9	13	11	12	9	10	7	7	13
		Fem..	15	1	2	2	.....	1	2	3	2	1	.....	1	.....

ages and sex, during the year 1901. (Stillbirths excluded.)

Ages in years under five.					Ages by five-year periods.																	Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.	
....	....	77	30	12	119	22	14	15	14	23	8	12	12	10	28	29	40	40	43	42	54	1	106
....	....	45	13	5	63	12	6	7	10	11	2	7	4	4	10	15	16	20	29	19	32	1	
....	....	32	17	7	56	10	8	8	4	12	6	5	8	6	18	14	24	20	14	23	22	..	
15	....	....	....	....	15	....	....	....	1	1	4	2	3	4	5	6	4	15	15	10	8	..	108a
15	....	....	....	....	15	....	....	....	1	1	3	1	....	....	1	1	4	7	6	7	5	..	
....	....	....	....	....	....	....	....	....	....	....	1	1	3	4	4	5	....	8	9	3	3	..	
29	3	6	4	1	43	5	5	12	11	10	7	6	11	20	9	17	18	21	20	15	9	..	(108)
16	1	3	....	1	21	2	2	6	6	4	1	3	4	12	3	12	7	10	11	8	4	..	
13	2	3	4	....	22	3	3	6	5	6	6	3	7	8	6	5	11	11	9	7	5	..	
18	3	3	....	....	24	2	1	1	1	3	2	2	1	1	5	2	3	9	6	2	11	..	107, 109
4	1	2	....	....	7	1	1	1	1	3	....	1	....	....	3	1	1	5	1	2	8	..	
14	2	1	....	....	17	1	....	....	....	....	2	1	1	1	2	1	2	4	5	....	3	..	
....	....	....	....	....	....	....	....	....	2	1	2	....	....	2	1	3	1	1	2	1	2	..	110
....	....	....	....	....	....	....	....	....	1	1	1	....	....	2	....	....	1	....	1	....	1	..	
....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	1	3	....	1	1	1	1	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	111
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
3	....	....	....	....	3	....	1	2	1	3	5	6	12	18	24	17	27	39	28	18	7	..	112
1	....	....	....	....	1	....	....	1	1	2	3	5	10	11	19	7	18	24	14	9	4	..	
2	....	....	....	....	2	....	1	1	....	1	2	1	2	7	5	10	9	15	14	9	3	..	
....	....	....	....	....	....	....	1	1	....	1	3	3	2	7	8	3	6	8	3	3	....	..	113
....	....	....	....	....	....	....	....	....	....	....	1	2	....	1	6	....	....	....	1	2	....	..	
....	....	....	....	....	....	....	1	1	....	1	2	1	2	6	2	3	6	8	2	1	....	..	
7	3	1	....	1	12	2	3	3	5	6	8	9	8	12	19	18	27	25	28	19	16	..	114
4	1	1	....	1	7	1	1	....	2	2	6	5	4	6	12	10	16	14	18	6	11	..	
3	2	....	....	....	5	1	2	3	3	4	2	4	4	6	7	8	11	11	10	13	5	..	
....	2	....	....	....	2	....	....	....	....	1	....	1	....	....	1	....	....	1	....	1	....	..	115
....	2	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	..	
....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	1	....	....	1	....	....	....	..	
17	9	3	3	3	35	12	17	31	28	25	19	9	18	14	7	13	8	10	14	9	7	1	116
7	4	1	1	3	16	6	8	14	10	11	2	4	5	7	1	7	4	6	10	5	4	1	
10	5	2	2	....	19	6	9	17	18	14	17	5	13	7	6	6	4	4	4	4	3	..	
....	2	....	1	4	7	20	45	52	31	29	16	21	11	5	4	8	4	5	2	1	2	..	118
....	....	....	....	1	1	11	29	28	16	16	10	13	8	5	3	5	1	5	1	1	2	..	
....	2	....	1	3	6	9	16	24	15	13	6	8	3	....	1	3	3	....	1	....	....	..	
....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	1	.	117
....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	..	
4	1	3	4	3	15	5	5	1	2	4	1	2	6	5	4	2	5	5	2	6	1	..	119
2	1	1	2	2	8	2	3	1	1	1	....	2	1	4	2	2	4	4	2	4	1	..	
2	....	2	2	1	7	3	2	....	1	3	1	....	5	1	2	....	1	1	....	2	....	..	
20	7	4	4	....	35	9	9	20	30	35	36	35	51	58	74	96	109	123	111	122	95	2	120
12	5	3	1	....	21	5	4	6	13	12	11	21	26	34	45	54	59	82	72	89	63	..	
8	2	1	3	....	14	4	5	14	17	23	25	14	25	24	29	42	50	41	39	33	32	2	
11	....	....	2	....	13	2	....	....	....	6	3	3	5	4	5	7	10	3	16	10	20	..	121
8	....	....	2	....	10	....	....	....	....	2	1	2	1	4	2	4	7	3	11	9	15	..	
3	....	....	....	....	3	2	....	....	....	4	2	1	4	....	3	3	3	....	5	1	5	..	
1	....	....	....	....	1	....	....	2	....	....	1	3	1	....	1	1	....	2	1	....	1	..	122
....	....	....	....	....	....	....	....	2	....	....	1	2	1	....	....	1	....	2	1	....	1	..	
1	....	....	....	....	1	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	..	
5	....	....	....	....	5	....	....	1	1	1	1	....	3	....	5	5	11	24	32	12	37	..	123
4	....	....	....	....	4	....	....	1	1	....	....	....	3	....	4	3	10	23	29	11	34	..	
1	....	....	....	....	1	....	....	....	....	1	1	....	....	....	1	2	1	1	3	1	3	..	

TABLE III.—Continued.—Causes of death in Michigan, by months,

Classification No.	Causes of death, 1901.	Sex.	Total deaths, 1901.	Months of death, 1901.											
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
129	Uterine tumor...	Total.	42	3	3	2	2	6	5	2	6	5	1	2	5
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem..	42	3	3	2	2	6	5	2	6	5	1	2	5
127-128, 130	Other diseases of uterus.....	Total.	58	2	3	4	7	5	6	6	5	2	9	5	4
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem..	58	2	3	4	7	5	6	6	5	2	9	5	4
131	Ovarian tumor....	Total.	49	2	4	3	1	6	3	7	6	2	3	8	4
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem..	49	2	4	3	1	6	3	7	6	2	3	8	4
132a	Diseases of tubes	Total.	2	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem..	2	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....
124-126, (132) 133	Other diseases of genito-urinary system.....	Total.	117	9	6	11	10	16	8	10	11	8	9	10	9
		Males.	83	7	4	10	5	14	5	5	7	5	6	9	6
		Fem..	34	2	2	1	5	2	3	5	4	3	3	1	3
137	Puerperal septicemia	Total.	267	19	24	45	34	27	16	18	15	15	18	17	19
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem..	267	19	24	45	34	27	16	18	15	15	18	17	19
138	Puerperal convulsions	Total.	81	7	7	7	5	11	5	6	9	3	4	9	8
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem..	81	7	7	7	5	11	5	6	9	3	4	9	8
134-136, 139-141	Other causes incident to childbirth.....	Total.	183	21	21	24	17	23	10	8	10	11	12	10	16
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem..	183	21	21	24	17	23	10	8	10	11	12	10	16
142	Gangrene.....	Total.	98	5	12	10	8	14	9	4	2	14	4	3	13
		Males.	56	3	7	3	4	7	5	4	1	11	.....	1	10
		Fem..	42	2	5	7	4	7	4	.....	1	3	4	2	3
143	Carbuncle.....	Total.	12	1	.....	1	4	.....	2	1	2	1	.....	.....	.....
		Males.	7	.....	.....	.....	3	.....	2	1	1	.....	.....	.....	.....
		Fem..	5	1	.....	1	1	.....	.....	.....	1	1	.....	.....	.....
144	Abscess.....	Total.	38	4	4	3	3	3	3	7	1	1	2	4	3
		Males.	22	3	2	2	3	2	1	3	.....	1	1	3	1
		Fem..	16	1	2	1	.....	1	2	4	1	.....	1	1	2
145	Other diseases of skin.....	Total.	24	2	1	2	.....	4	.....	1	2	4	2	1	5
		Males.	14	2	.....	2	.....	3	.....	1	1	2	.....	1	2
		Fem..	10	.....	1	.....	.....	1	.....	.....	1	2	2	.....	3
146	Diseases of bones	Total.	41	4	2	6	5	3	3	2	4	4	2	2	4
		Males.	21	2	1	2	2	3	1	1	2	1	2	1	3
		Fem..	20	2	1	4	3	.....	2	1	2	3	.....	1	1
147	Diseases of joints.....	Total	3	.....	1	.....	.....	1	.....	1	.....	.....	.....	.....	.....
		Males.	2	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
		Fem..	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
148, 149	Other diseases of locomotor system.....	Total.	2	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....
		Males.	2	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....
		Fem..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
150a	Hydrocephalus..	Total.	54	5	4	5	5	5	5	6	3	5	4	2	5
		Males.	27	3	1	1	3	3	3	4	1	1	2	1	4
		Fem..	27	2	3	4	2	2	2	2	2	4	2	1	1
150b	Congenital malformation of heart (cyanosis)	Total.	101	8	11	11	6	9	7	9	12	9	8	5	6
		Males.	56	5	6	5	4	6	5	5	3	5	6	2	4
		Fem..	45	3	5	6	2	3	2	4	9	4	2	3	2
(150)	Other congenital malformations.	Total.	151	14	11	17	14	15	16	10	14	5	6	17	12
		Males.	81	10	4	7	9	7	9	8	6	3	4	10	4
		Fem..	70	4	7	10	5	8	7	2	8	2	2	7	8

ages and sex, during the year 1901. (Stillbirths excluded.

Ages in years under five.					Ages by five-year periods																			Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 and upwards.	Unk.	
										2	2	5	3	7	3	1	1	2			2		125
										2	2	5	3	7	3	1	1	2			2		
							1	2	7	7	11	2	3	3	3	1	1	1		3			129, 130
							1	2	7	7	11	2	3	2	3	1	1	1		2			
									3	2	2	7	5	6	4	3	6	1	3	2	2		131
									3	2	2	7	5	6	4	3	6	1	3	2	2		
										1	1											1	132.1
										1	1											1	
3					3			1	5	3	7	5	4	4	3	1	1	12	9	9	23		124-128, (132) 133
2					2								2	1	3	1	1	11	9	19	23		
1					1			1	5	3	7	5	2	3				1		1			
								21	72	71	49	23	16	4								1	137
								21	72	71	49	23	16	4								1	
							1	11	26	12	16	9	5	1									138
							1	11	26	12	16	9	5	1									
								4	44	37	43	29	19	6								1	134 136, 139 141
								4	44	37	43	29	19	6								1	
2				1	3			1		1		2		2	2	5	5	11	11	18	37		142
												1			1	2	5	5	7	12	23		
2				1	3			1		1		1		2	1	3		6	4	6	14		
														2	2		1	2	2	2	1		143
															2				2	2	1		
														2			1	2					
7	4			1	12	2	1	1		1	4	1	1	1	2	2	2	2		3	1		144
6	1				7		1	1			3	1		1	1		2	2		3			
1	3			1	5	2				1	1		1		1	2					1		
16		1			17			1				2				1		1	1		1		145
8		1			9			1				2				1			1				
8					8													1			1		
10	4	2	1		17	4	3	6			1		1			4	2	1			1	1	146
3	1				4	3		5					1			3	2	1			1	1	
7	3	2	1		13	1	3	1			1					1							
1					1	1											1						147
1					1												1						
						1																	
										1							1						148 149
										1							1						
43	2	2	2		49	3		1	1														150a
20	1	1			22	3		1	1														
23	1	1	2		27																		
96	2	1	1		100			1															150b
54			1		55			1															
42	2	1			45																		
141	6	3			150							1											(150)
73	5	2			80							1											
68	1	1			70																		

TABLE III.—Continued.—Causes of death in Michigan, by months,

Classification No.	Causes of death, 1901.	Sex.	Total deaths, 1901.	Months of death, 1901.											
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
151a	Premature birth.	Total.	524	62	38	46	53	44	39	41	35	36	40	47	43
		Males.	308	34	26	29	29	27	25	19	21	21	26	24	27
		Fem..	215	28	12	16	24	17	14	22	14	15	14	23	16
		Unk...	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
(151) 152, 153	Congenital debility.....	Total.	677	62	58	68	59	52	62	60	53	62	51	44	46
		Males.	405	35	34	42	32	27	47	40	37	39	28	23	21
		Fem..	270	27	24	25	27	25	15	20	16	22	23	21	25
		Unk...	2	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....
154	Old age.....	Total.	1,193	114	121	128	119	94	85	92	84	78	92	77	109
		Males.	573	51	62	67	57	42	38	49	44	32	44	38	49
		Fem..	620	63	59	61	62	52	47	43	40	46	48	39	60
155	Suicide by poison	Total.	76	2	7	4	6	1	11	5	10	6	13	4	7
		Males.	47	2	3	2	4	.....	11	2	7	2	7	3	4
		Fem..	29	.....	4	2	2	1	.....	3	3	4	6	1	3
156	Suicide by asphyxia.....	Total.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
157	Suicide by hanging	Total.	50	1	3	7	6	3	4	4	4	2	7	4	5
		Males.	38	1	3	4	4	2	3	3	3	1	7	4	3
		Fem..	12	.....	.....	3	2	1	1	1	1	1	.....	.....	2
158	Suicide by drowning.....	Total.	20	.....	.....	.....	1	.....	2	3	4	3	4	3	.....
		Males.	14	.....	.....	.....	.....	.....	2	3	3	1	3	2	.....
		Fem..	6	.....	.....	.....	1	.....	.....	.....	1	2	1	1	.....
159	Suicide by firearms.....	Total.	54	6	3	2	5	5	2	6	4	5	6	6	4
		Males.	51	6	3	2	5	5	2	5	4	4	6	5	4
		Fem..	3	.....	.....	.....	.....	.....	.....	1	.....	1	.....	1	.....
160	Suicide by cutt'g instruments....	Total.	18	2	1	3	2	1	2	2	1	.....	1	1	2
		Males.	13	2	1	2	1	1	2	1	1	.....	.....	1	1
		Fem..	5	.....	.....	1	1	.....	.....	1	.....	.....	1	.....	1
161	Suicide by jumping from high places.....	Total.	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
		Males.	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
		Fem..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
162	Suicide by crushing.....	Total.	2	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....
		Males.	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
		Fem..	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
163	Suicide by other or unspecified means.....	Total.	17	2	2	.....	1	.....	1	3	2	.....	3	2	1
		Males.	11	2	1	.....	.....	.....	1	1	1	.....	3	1	1
		Fem..	6	.....	1	.....	1	.....	.....	2	1	.....	.....	1	.....
164, 165	Fractures and dislocations....	Total.	223	19	16	16	13	23	12	15	25	19	21	17	27
		Males.	168	11	14	8	8	19	8	12	23	11	18	13	23
		Fem..	55	8	2	8	5	4	4	3	2	8	3	4	4
167	Burns and scalds.	Total.	178	15	17	10	8	20	13	9	11	12	17	23	23
		Males.	80	12	8	5	2	10	2	5	5	5	3	12	11
		Fem..	98	3	9	5	6	10	11	4	6	7	14	11	12
169	Heat and sunstroke.....	Total.	55	.....	.....	.....	.....	.....	12	37	1	5	.....	.....	.....
		Males.	36	.....	.....	.....	.....	.....	8	24	.....	4	.....	.....	.....
		Fem..	19	.....	.....	.....	.....	.....	4	13	1	1	.....	.....	.....
170	Cold and freezing	Total.	14	1	3	2	1	.....	.....	.....	.....	1	1	1	4
		Males.	14	1	3	2	1	.....	.....	.....	.....	1	1	1	4
		Fem..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(171)	Lightning.....	Total.	28	.....	.....	.....	.....	2	7	15	3	1	.....	.....	.....
		Males.	21	.....	.....	.....	.....	1	6	13	1	.....	.....	.....	.....
		Fem..	7	.....	.....	.....	.....	1	1	2	2	1	.....	.....	.....

ages and sex, during the year 1901. (Stillbirths excluded.)

Ages in years under five.					Ages by five-year periods.																	Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.	
524	....	....	....	....	524	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	151a
308	....	....	....	....	308	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
215	....	....	....	....	215	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
677	....	....	....	....	677	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	(151) 152, 153
405	....	....	....	....	405	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
270	....	....	....	....	270	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
2	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
...	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	2	6	46	108	223	799	8	154
...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	19	42	109	394	7	
...	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	2	4	27	66	114	405	1	
...	....	....	....	....	....	....	....	6	7	4	10	5	5	11	8	6	5	2	2	3	1	1	155
...	....	....	....	....	....	....	....	2	2	1	7	....	4	9	7	4	4	2	1	2	1	1	
...	....	....	....	....	....	....	....	4	5	3	3	5	1	2	1	2	1	....	1	1	....	..	
...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	156
...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
...	....	....	....	....	....	....	....	2	3	4	4	3	4	5	4	6	4	4	3	4	....	..	157
...	....	....	....	....	....	....	....	2	2	3	4	1	2	....	4	6	4	4	3	3	....	..	
...	....	....	....	....	....	....	....	....	1	1	....	2	2	5	....	....	....	....	....	1	....	..	
...	....	....	....	....	....	....	....	....	3	1	1	2	2	....	3	3	....	1	2	1	1	..	158
...	....	....	....	....	....	....	....	....	1	....	....	2	2	....	3	2	....	....	2	1	1	..	
...	....	....	....	....	....	....	....	..	2	1	1	....	....	....	....	1	....	1	....	....	....	..	
...	....	....	....	....	....	....	....	3	2	3	3	10	10	6	3	4	2	4	2	1	1	..	159
...	....	....	....	....	....	....	....	1	2	3	3	9	10	6	3	4	2	4	2	1	1	..	
...	....	....	....	....	....	....	....	2	....	....	....	1	....	....	....	....	....	....	....	....	....	..	
...	....	....	....	....	....	....	....	....	1	1	2	1	....	3	3	2	2	3	....	....	....	..	160
...	....	....	....	....	....	....	....	....	1	1	1	1	....	2	3	2	1	1	....	....	....	..	
...	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	1	2	....	....	....	..	
...	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	..	161
...	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	..	
...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
...	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	..	162
...	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	..	
...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	..	
...	....	....	....	....	....	1	....	....	....	6	....	1	....	1	....	....	4	2	1	1	....	..	163
...	....	....	....	....	....	....	....	....	....	4	....	....	....	....	....	....	3	2	1	1	....	..	
...	....	....	....	....	....	1	....	....	....	2	....	1	....	1	....	....	1	....	....	....	....	..	
...	....	2	....	2	4	2	4	7	15	12	15	12	14	14	7	9	10	10	18	24	43	3	164, 165
...	....	2	....	2	4	2	3	7	15	12	13	12	14	13	7	6	5	9	13	14	16	3	
...	....	....	....	....	....	....	1	....	....	....	2	....	....	1	....	3	5	1	5	10	27	..	
3	15	15	23	13	69	20	2	5	3	10	8	12	10	8	5	5	5	2	5	4	4	1	167
1	9	6	12	5	33	6	1	3	2	6	3	3	4	4	2	3	2	1	2	3	1	1	
2	6	9	11	8	36	14	1	2	1	4	5	9	6	4	3	2	3	1	3	1	3	..	
4	5	....	....	....	9	1	....	1	1	2	1	3	3	1	4	4	4	7	5	4	4	1	169
1	2	....	....	....	3	1	....	1	1	2	1	3	2	1	4	3	2	2	3	3	3	1	
3	3	....	....	....	6	....	....	....	....	....	....	....	1	....	....	1	2	5	2	1	1	..	
...	....	....	....	....	....	....	....	....	2	....	2	....	2	....	1	1	....	3	1	....	2	..	170
...	....	....	....	....	....	....	....	....	2	....	2	....	2	....	1	1	....	3	1	....	2	..	
...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
1	....	....	....	1	2	1	3	5	3	....	2	3	3	....	2	1	1	1	1	....	....	..	(171)
...	....	....	....	....	....	....	3	3	2	....	2	3	3	....	2	....	1	1	1	....	....	..	
1	....	....	....	1	2	1	....	2	1	....	....	....	....	....	....	1	....	....	....	....	....	..	

TABLE III.—Concluded.—Causes of death in Michigan, by months.

Classification No.	Causes of death, 1901.	Sex.	Total deaths, 1901.	Months of death, 1901. Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
172	Drowning	Total.	299	7	3	6	12	32	49	74	41	40	9	17	9
		Males.	264	6	3	4	11	24	45	68	36	36	7	15	9
		Fem..	34	1	.....	2	1	8	4	6	4	4	2	2	.....
		Unk..	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
173	Inanition	Total.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Males	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
174	Inhalation of poisonous gases	Total.	16	.....	.....	2	2	1	1	.....	1	3	.....	6	.....
		Males.	10	.....	.....	1	2	.....	1	.....	1	3	.....	2	.....
		Fem..	6	.....	.....	1	.....	1	.....	.....	.....	.....	.....	4	.....
175	Other accidental poisonings	Total.	79	5	9	6	6	9	7	5	7	8	7	3	7
		Males.	47	4	8	3	4	3	5	2	4	4	3	2	5
		Fem..	32	1	1	3	2	6	2	3	3	4	4	1	2
166a	Accidental gun-shot wounds	Total.	99	8	6	7	6	4	6	5	6	21	12	11	7
		Males.	90	8	6	6	6	4	4	4	5	18	12	10	7
		Fem..	9	.....	.....	1	.....	.....	2	1	1	3	.....	1	.....
166b	Injuries by machinery	Total.	57	4	.....	4	2	2	.....	2	4	6	1	28	4
		Males.	57	4	.....	4	2	2	.....	2	4	6	1	28	4
		Fem..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
166c	Injuries in mines and quarries	Total.	97	14	6	6	6	9	13	7	12	4	13	4	3
		Males.	96	14	6	6	6	9	13	7	12	4	13	3	3
		Fem..	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
166d	Railroad accidents and injuries	Total.	244	19	10	17	16	18	17	19	28	31	17	35	17
		Males.	208	16	6	16	15	16	12	18	27	30	17	21	14
		Fem..	24	3	4	1	1	2	5	1	1	1	.....	2	3
		Unk..	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	.....
166e	Injuries by vehicles and horses	Total.	70	5	1	2	2	4	6	11	8	7	11	8	5
		Males.	63	4	1	2	2	3	5	10	6	7	10	8	5
		Fem..	7	1	.....	.....	.....	1	1	1	2	.....	1	.....	.....
166f	Injuries by electric cars	Total.	21	3	.....	.....	1	2	5	1	4	3	.....	1	1
		Males.	20	3	.....	.....	1	2	4	1	4	3	.....	1	1
		Fem..	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
(166) 168, 171 (176)	Other accidental injuries	Total.	391	33	21	29	37	33	27	44	30	37	38	30	32
		Males.	292	26	15	19	25	25	15	36	24	25	34	24	24
		Fem	99	7	6	10	12	8	12	8	6	12	4	6	8
176a	Suffocation	Total	30	2	1	3	4	4	3	1	1	4	3	1	3
		Males	21	1	1	2	4	3	2	1	1	3	1	1	1
		Fem	9	1	.....	1	.....	1	1	.....	.....	1	2	.....	2
176b	Injuries at birth	Total	77	2	5	4	7	4	7	8	6	7	10	12	5
		Males	53	2	3	1	6	3	4	7	3	3	10	7	4
		Fem	23	.....	2	3	1	1	3	1	3	4	.....	4	1
		Unk	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
176c	Homicide	Total	35	.....	.....	4	3	1	6	2	2	4	7	4	2
		Males	19	.....	.....	3	1	1	1	2	2	3	2	2	2
		Fem	16	.....	.....	1	2	.....	5	.....	.....	1	5	2	.....
177	"Dropsy"	Total	192	16	23	19	12	19	14	20	12	12	13	14	18
		Males	104	8	11	10	10	11	10	11	6	7	5	6	9
		Fem	88	8	12	9	2	8	4	9	6	5	8	8	9
179d	Heart failure	Total	128	15	21	15	11	12	13	9	6	4	7	5	10
		Males	67	7	10	5	6	8	8	5	3	3	4	3	5
		Fem	61	8	11	10	5	4	5	4	3	1	3	2	5
179b	Other ill defined diseases	Total	420	35	30	27	26	31	21	36	53	50	36	33	42
		Males	213	18	15	9	13	19	9	17	32	28	16	18	19
		Fem	207	17	15	18	13	12	12	19	21	22	20	15	23
178, (179)	Unknown (or unspecified)	Total.	311	28	35	45	33	20	21	7	28	26	24	17	27
		Males	165	16	14	26	17	13	10	3	8	12	19	12	15
		Fem	146	12	21	19	16	7	10	4	20	14	5	5	10
		Unk	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	2

ages and sex, during the year 1901. (Stillbirths excluded.)

Ages in years under five.					Ages by five-year periods.																		Classification No.
0	1.	2.	3.	4.	0 to 4.	5	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	62 to 69.	70 to 74.	75 to 79.	80 +	Unk.	
2	11	9	2	5	36		40	48	34	19	12	14	10	10	10	4	8	2	4	2	3	16	172
2	6	6	6	3	23		39	44	31	18	10	12	10	9	10	3	8	1	3	2	2	15	
...	5	3	3	2	13		1	4	3	1	2	2	....	1	....	1	....	1	1	....	1	..	
...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	
...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	173
...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
1	....	....	....	....	1	1	....	2	2	1	1	2	....	2	....	....	2	1	....	....	1	..	174
...	....	....	....	....	....	1	....	1	2	1	1	2	....	....	....	....	1	1	....	....	....	..	
1	....	....	....	....	1	....	....	1	....	....	....	....	....	2	....	....	1	....	....	....	1	..	
8	10	6	4	1	29	5	4	3	4	5	5	4	3	4	4	1	1	1	4	1	1	..	175
2	8	3	2	1	16	3	3	1	3	1	3	3	2	2	4	....	1	1	3	1	....	..	
6	2	3	2	....	13	2	1	2	1	4	2	1	1	2	....	1	....	....	1	....	1	..	
1	1	....	....	....	2	6	19	12	15	10	3	7	2	4	7	4	....	3	....	3	....	2	166a
1	1	....	....	....	2	5	18	11	14	8	3	7	2	4	5	4	....	2	....	3	....	2	
...	....	....	....	....	....	1	1	1	1	2	....	....	....	....	2	....	....	1	....	....	....	..	
...	....	....	....	....	....	....	4	8	13	9	5	3	5	1	4	2	2	....	....	1	....	..	166b
...	....	....	....	....	....	....	4	8	13	9	5	3	5	1	4	2	2	....	....	1	....	..	
...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
...	....	....	....	....	....	....	....	8	16	20	12	15	11	5	5	4	....	1	....	....	....	..	166c
...	....	....	....	....	....	....	....	8	16	20	12	15	11	5	5	3	....	1	....	....	....	..	
...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	..	
...	1	1	1	1	4	5	7	19	25	27	16	18	16	14	19	14	10	6	6	6	7	25	166d
...	1	1	....	....	2	3	5	18	25	25	15	17	16	13	17	11	8	5	5	4	6	13	
...	....	....	1	1	2	2	2	1	....	2	1	1	....	1	2	3	2	1	1	2	1	..	
...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	12	
1	1	1	....	3	6	10	9	2	1	....	3	5	1	4	6	5	5	7	4	....	2	..	166e
1	1	1	....	2	5	10	7	2	1	....	3	4	1	3	5	5	5	7	3	....	2	..	
...	....	....	....	1	1	....	2	....	....	....	....	1	....	1	1	....	....	....	1	....	....	..	
...	....	1	....	....	1	1	....	....	3	1	1	1	3	1	....	1	2	1	2	1	1	1	166f
...	....	1	....	....	1	1	....	....	3	1	1	1	2	1	....	1	2	1	2	1	1	1	
...	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	..	
17	9	6	3	2	37	15	16	16	30	34	23	23	19	17	22	22	17	15	23	17	43	2	(166) 168, [171] (176)
6	4	5	2	2	19	12	13	13	24	31	20	22	14	13	17	22	13	11	15	9	22	2	
11	5	1	1	....	18	3	3	3	6	3	3	1	5	4	5	....	4	4	8	8	21	..	
25	2	....	....	....	27	....	1	....	1	....	1	....	....	....	....	....	....	....	....	....	....	..	176a
16	2	....	....	....	18	....	1	....	1	....	1	....	....	....	....	....	....	....	....	....	....	..	
9	....	....	....	....	9	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
77	....	....	....	....	77	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	176b
53	....	....	....	....	53	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
23	....	....	....	....	23	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
...	....	....	....	....	....	3	2	3	1	1	5	4	3	3	2	3	....	....	1	1	....	3	176c
...	....	....	....	....	....	1	....	2	1	....	3	3	2	3	....	2	....	....	1	....	....	1	
...	....	....	....	....	....	2	2	1	....	1	2	1	1	....	2	1	....	....	....	1	....	2	
2	1	....	....	....	3	1	4	....	2	2	1	4	4	6	3	13	21	29	36	25	38	..	177
1	1	....	....	....	2	1	3	....	1	1	1	1	2	6	1	10	6	14	19	15	21	..	
1	....	....	....	....	1	....	1	....	1	1	....	3	2	....	2	3	15	15	17	10	17	..	
27	....	1	....	....	28	....	2	1	3	6	2	6	4	3	7	5	8	10	11	14	18	..	179a
12	....	1	....	....	13	....	1	....	2	2	1	2	3	1	3	2	5	7	7	9	9	..	
15	....	....	....	....	15	....	1	1	1	4	1	4	1	2	4	3	3	3	4	5	9	..	
181	20	3	3	1	208	6	2	1	1	6	3	9	3	6	9	11	16	32	22	31	53	1	179b
102	7	1	2	....	112	2	1	1	....	4	1	3	3	2	2	7	8	17	10	15	25	..	
79	13	2	1	1	96	4	1	....	1	2	2	6	....	4	7	4	8	15	12	16	28	1	
195	13	4	4	....	216	3	1	5	3	5	6	3	6	8	9	5	9	3	10	7	8	4	178, (179)
102	5	1	2	....	110	3	1	3	2	3	3	2	6	4	6	3	7	2	5	2	2	1	
91	8	3	2	....	104	....	....	2	1	2	3	1	....	4	3	2	2	1	5	5	6	2	
2	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	

TABLE IV.—Causes of death in Michigan, by cou

Classification No.	Causes of death, 1901.	State.	Counties—A														
			Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.
	ALL CAUSES*	32,834	63	48	493	210	209	120	60	267	782	136	659	381	736	269	1
	I. GENERAL DISEASES																
	(A. *Epidemic Diseases*)																
1	Typhoid fever	615	1	1	4	1	7	....	..	5	9	1	6	7	21	6	
	Typho-malarial fever	30	....	....	....	....	....	....	..	....	1	....	....	....	....	....	
4	Malarial fever	109	....	....	4	....	....	1	..	....	2	....	4	....	5	1	
5	Smallpox	27	....	....	....	....	....	....	..	....	1	....	....	1	....	....	..
6	Measles	79	....	....	3	....	....	....	10	1	....	....	1	1	1	....	..
7	Scarlet fever	312	....	....	....	1	2	6	..	2	14	5	5	....	1	....	
8	Whooping cough	163	....	....	....	....	1	1	..	1	11	....	8	2	1	1	
	Diphtheria	359	....	....	....	2	3	5	..	1	14	....	4	2	3	2	
9	Croup	55	....	....	....	2	....	1	1	....	3	....	1	....	....	....	
	Membranous croup	88	....	....	....	....	2	....	..	....	2	....	1	1	....	....	..
10	Influenza	1,099	2	....	28	2	10	6	..	15	45	2	23	25	25	12	
13	Cholera nostras	38	....	....	1	2	2	....	..	....	1	....	....	....	....	....	..
14	Dysentery	212	....	....	1	1	2	....	..	5	8	3	3	1	6	3	
18	Erysipelas	116	....	....	....	1	2	....	1	1	3	1	2	....	6	....	..
	Chicken pox	2	....	....	....	....	....	....	..	....	....	....	....	....	....	....	..
	German measles	2	....	....	....	....	....	....	..	....	....	....	....	....	....	....	..
19*	Mumps	5	....	....	....	....	....	....	..	....	....	....	....	....	....	....	..
	Other epidemic diseases	3	....	....	....	....	....	....	..	....	....	....	....	....	....	....	..
	(B. *Other General Diseases*)																
20	Septicemia	116	....	....	3	1	1	2	..	....	1	....	1	1	4	1	
27	Tuberculosis of lungs	2,152	5	5	40	15	9	2	7	11	55	15	43	22	37	20	
26	Tuberculosis of larynx	22	....	....	....	....	....	....	..	....	2	....	....	....	....	1	.
28	Tuberculous meningitis	93	....	....	1	1	1	....	..	....	7	1	1	2	2	....	.
29	Abdominal tuberculosis	132	....	....	....	1	1	1	..	....	5	....	3	3	1	1	.
30	Pott's disease	29	....	....	1	....	....	....	..	....	1	....	....	....	....	....	.
31	Tuberculous abscess	3	....	....	....	....	....	....	..	....	....	....	....	....	....	....	.
32	White swelling	17	1	....	....	1	....	....	..	....	1	....	....	1	....	....	.
33	Tuberculosis of other organs	38	....	....	2	2	1	....	..	....	1	....	2	....	1	....	.
34	General tuberculosis	46	....	1	2	....	....	1	..	....	1	....	1	2	2	....	.
35	Scrofula	16	....	....	....	....	1	....	..	....	....	....	....	....	....	....	.
36-38	Venereal diseases	88	....	....	....	....	....	....	..	....	5	....	5	....	3	1	.
39	Cancer of mouth	38	1	....	....	....	....	....	..	1	4	....	1	2	3	....	.

*ha not included.

the year 1901. (Stillbirths excluded.)

eenaw.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	G'd Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Classification No.
	337	26	297	253	403	214	572	63	257	342	361	422	892	373	542	464	135	105	243	615	740	88	1769	41	
	6	3	11	3	8	4	6	1	6	8	11	8	28	4	17	6	2	2	5	16	13	....	38	..	1
	....	..	....	....	....	....	1	..	....	....	....	....	....	....	2	2	....	....	1	1	....	....	2	..	
	1	..	....	....	2	1	3	..	....	....	1	2	....	....	2	2	....	....	....	3	4	1	6	..	4
	....	..	2	....	....	1	1	..	....	2	....	....	....	....	....	....	....	....	2	....	....	....	....	..	5
	1	..	2	6	1	....	....	..	7	....	1	3	....	....	....	....	....	....	....	....	7	1	1	..	6
	4	3	1	1	1	1	3	1	11	7	4	1	17	13	1	4	3	2	2	....	5	1	10	5	7
	2	..	....	....	2	....	2	..	2	5	2	1	7	....	2	....	....	....	2	....	....	....	8	..	8
	3	..	1	3	5	3	5	..	7	2	2	....	8	2	9	7	11	9	4	....	2	7	11	..	
	1	..	....	....	1	....	1	..	1	1	....	....	3	....	....	3	....	....	1	1	1	....	1	..	9
	4	..	4	....	....	....	1	..	1	2	....	....	1	....	1	3	3	....	....	....	....	....	22	..	
	19	1	2	1	20	2	22	2	....	9	9	24	7	16	25	16	2	1	8	32	19	5	63	..	10
	....	..	1	1	....	....	2	..	....	....	....	....	1	1	1	....	....	....	....	....	....	....	....	..	13
	3	..	1	3	4	....	4	..	1	2	1	1	4	....	4	1	....	....	2	10	23	1	11	..	14
	....	..	1	1	....	2	5	..	....	....	....	....	....	1	1	1	....	1	1	2	5	1	11	..	18
	....	..	....	....	....	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	..	
	....	..	....	....	....	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
	1	..	....	....	....	....	....	..	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	..	19*
	....	..	....	....	....	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
1	3	..	2	2	1	1	1	..	....	....	2	2	3	1	3	1	1	1	1	....	3	....	3	..	20
5	16	1	25	18	18	17	30	2	14	24	22	22	65	27	33	34	6	6	16	37	45	8	115	1	27
1	....	..	....	....	....	....	1	..	1	....	....	1	1	....	....	....	....	....	....	....	1	....	2	.	26
.	1	..	1	2	....	....	....	..	2	....	1	....	2	1	3	....	....	1	....	2	3	1	8	..	28
..	2	..	1	4	3	....	1	..	1	1	2	3	3	1	3	2	1	....	2	2	2	....	6	1	29
..	1	..	....	1	1	....	....	..	....	....	....	1	2	....	2	1	....	....	....	1	2	....	2	..	30
..	....	..	....	....	....	....	1	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	31
..	....	..	1	....	1	....	....	..	....	....	....	....	3	....	....	....	....	....	....	....	....	1	1	..	32
..	....	..	....	1	....	....	....	..	....	1	....	....	....	....	....	....	....	....	....	2	1	....	4	..	33
..	1	..	....	....	....	....	3	..	....	....	1	....	....	1	1	1	....	....	....	....	2	....	2	..	34
..	....	..	....	....	....	1	....	..	....	2	....	....	....	....	1	....	....	....	....	....	....	....	1	..	35
..	....	..	....	....	....	....	....	..	....	....	....	....	....	....	1	....	1	....	1	3	....	....	5	..	36-38
1	....	..	....	....	1	....	....	..	....	....	....	1	1	1	1	1	....	....	1	1	1	....	....	..	39

TABLE IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1901.	State.	Counties—Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.
40	Cancer of stomach and liver.	612	..	..	7	3	4	2	....	5	7	2	7	9	22	3	4	....
41	Cancer of intestines	137	..	..	5	..	..	1	....	3	5	....	3	1	4	2	1	2
42	Cancer of genital organs	237	..	1	3	..	2	..	....	4	5	....	8	4	11	2	....	2
43	Cancer of breast	149	..	..	2	1	..	..	....	3	....	....	3	4	6	....	1	1
44	Cancer of skin	76	..	..	3	..	..	..	....	1	1	1	2	3	3	1	1	....
45	Cancer of other organs	235	1	..	6	3	1	2	....	2	5	....	9	2	7	2	1	2
46	Tumors	40	..	..	..	..	1	..	....	....	1	....	1	....	2	1	....	1
47 48	Rheumatism	221	1	..	5	..	2	2	....	3	6	....	5	7	7	1	....	....
50	Diabetes	264	..	..	2	4	1	..	....	4	2	....	8	4	5	4	1	1
53 54	Anemia	195	..	2	4	1	1	..	....	1	2	2	2	3	7	4	2	1
56	Alcoholism	62	..	..	..	1	1	..	....	....	1	....	2	....	1	1	1	....
57 59	Chronic poisonings	18	..	..	..	..	..	..	....	....	2	....	1	....	....	....	....	....
55*, etc.	Other general diseases	51	..	..	..	..	..	..	....	1	....	....	....	....	....	....	....	....
	II. Diseases of Nervous System																	
60	Encephalitis	82	1	..	..	1	1	..	....	....	1	1	....	1	1	1	....	2
61	Meningitis	427	..	..	2	2	2	..	1	1	10	1	7	4	8	3	1	3
62	Locomotor ataxia	39	..	..	2	..	..	..	....	....	1	....	....	1	2	1	....	....
63	Other diseases of spinal cord.	131	..	..	2	..	1	..	....	2	2	....	2	1	2	....	2	....
64	Apoplexy	1,243	2	1	22	4	7	1	....	16	27	3	28	19	41	13	4	7
65	Softening of brain	105	..	..	5	..	1	..	....	3	....	....	5	3	6	3	....	....
66	Paralysis	799	1	..	13	7	1	2	1	9	14	2	34	19	28	13	3	5
67	General paralysis of insane	139	..	..	..	..	..	..	....	2	4	....	1	2	2	1	....	....
68	Other forms of mental disease	80	..	..	..	1	1	..	....	....	1	1	....	1	1	1	....	....
(71)	Other diseases of the brain	98	..	..	..	..	1	1	....	....	1	1	5	5	2	....	....	1
69	Epilepsy	177	..	..	6	2	1	1	....	2	2	2	6	....	3	3	....	1
70 71	Convulsions	550	1	..	2	5	2	4	3	1	7	1	10	3	5	3	1	5
72	Tetanus	31	..	..	..	..	..	..	....	....	1	....	....	1	....	1	....	....
73 76	Other diseases of nervous system	111	2	..	..	..	..	1	....	2	3	2	2	6	4	....	1	....
	III. Diseases of Circulatory System																	
77	Pericarditis	55	..	..	1	..	..	1	....	1	1	....	1	1	1	....	....	1
78	Endocarditis	102	..	..	..	1	1	..	....	....	....	....	....	....	....	....	1	1
79	Heart disease	2,691	8	1	59	14	19	4	....	38	53	4	77	48	76	39	7	12
80	Angina Pectoris	192	..	..	4	1	1	..	....	2	3	1	6	3	6	2	2	....
81	Diseases of arteries	117	..	..	6	..	1	2	....	3	3	1	5	1	5	....	....	....

*Stillbirths not included.

by counties, during the year 1901. (Stillbirths excluded.)

to Keweenaw.

Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	G'd Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Classification No.
..	1	8	..	3	4	11	3	10	....	2	4	9	5	16	8	11	7	2	....	1	16	14	....	43	....	40
1	1	1	..	..	..	..	3	3	....	....	....	....	3	5	1	3	2	....	....	....	1	4	....	7	....	41
..	1	1	..	2	..	2	1	3	....	....	4	5	5	3	2	2	2	1	....	2	6	9	1	18	....	42
1	..	3	..	..	..	3	2	3	1	....	1	2	6	....	....	....	2	1	....	....	6	4	....	9	....	43
1	..	1	..	..	1	..	..	....	....	....	1	1	3	....	2	....	3	2	....	....	....	2	....	3	....	44
1	..	..	..	2	..	4	1	4	....	3	3	....	6	5	2	3	4	2	....	2	3	4	....	20	....	45
..	..	..	..	..	..	..	..	1	....	....	....	....	....	1	1	2	1	....	....	....	3	....	....	2	....	46
..	..	4	..	1	1	2	1	8	....	3	2	2	....	2	4	5	6	1	1	2	6	3	....	13	....	47-48
1	..	1	..	..	..	3	3	9	....	1	5	5	6	6	4	3	5	3	....	3	6	10	....	20	1	50
1	1	1	..	..	2	3	2	1	....	....	4	4	3	3	3	2	2	....	1	3	3	3	....	17	....	53-54
5	..	..	..	..	1	..	..	....	....	1	....	1	....	3	1	2	2	....	....	....	2	1	....	6	....	56
..	..	..	..	1	..	1	..	....	....	....	....	2	....	....	....	....	....	....	....	1	1	1	....	1	....	57-59
..	..	..	..	1	..	1	..	1	....	2	1	....	1	2	1	1	2	....	....	....	....	3	....	2	....	55*, etc.
1	..	2	..	2	1	1	..	....	1	....	1	....	1	4	2	1	1	1	....	....	2	2	....	9	....	60
..	2	2	..	5	2	5	5	8	2	6	3	8	7	13	2	3	3	3	1	4	5	3	....	21	1	61
..	..	..	..	..	..	2	..	1	....	....	..	....	1	....	....	2	3	....	1	....	....	2	....	3	....	62
1	..	6	1	5	..	2	2	1	....	2	3	1	3	2	....	8	7	....	....	2	2	6	1	7	....	63
5	4	16	..	5	3	19	7	30	1	4	11	17	34	19	11	19	30	1	1	5	36	60	5	78	3	64
..	..	3	..	..	..	2	..	4	....	....	....	3	2	1	....	5	1	....	....	....	2	6	....	4	....	65
3	4	10	..	3	1	19	4	20	....	1	10	11	17	2	9	20	12	5	....	6	15	20	....	54	1	66
..	..	..	..	..	..	3	..	2	....	....	16	1	1	3	1	1	3	....	....	....	3	23	....	6	....	67
..	..	..	..	1	..	1	..	1	....	....	4	....	....	1	....	....	1	....	....	....	2	8	....	2	....	68
1	..	1	1	1	..	3	1	3	1	....	2	....	1	....	....	4	....	....	....	1	2	5	....	3	....	(74)
..	..	..	..	..	2	2	2	2	....	....	8	1	2	2	3	4	4	1	....	....	2	10	....	5	....	69
8	1	3	..	7	7	1	..	8	1	7	4	4	2	31	7	4	4	3	....	1	4	4	3	13	1	70-71
..	..	1	..	..	..	1	..	....	....	....	....	....	....	3	1	....	....	....	1	....	....	3	....	4	....	72
..	..	..	..	2	..	2	1	2	....	1	3	1	3	1	....	1	2	....	....	2	2	3	....	7	....	73-76
..	..	2	..	1	..	..	..	....	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	2	....	77
..	..	1	..	..	3	3	2	....	....	....	1	....	2	5	1	1	3	2	....	....	2	4	2	12	....	78
9	7	47	2	15	16	52	11	52	....	5	33	38	55	46	19	89	58	3	2	14	67	70	3	159	2	79
..	1	5	..	..	..	5	1	5	....	....	1	3	5	3	1	4	9	....	....	2	4	3	....	6	....	80
1	..	..	..	..	..	3	1	2	....	....	3	....	6	5	1	2	2	....	....	....	3	2	....	8	....	81

TABLE IV.—Continued.—Causes of death in Michigan.

Classification No.	Causes of death, 1901.	State.	Counties—Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.
82	Embolism and thrombosis	60	..	1	3	..	..	..	..	....	....	....	1	3	3	....	1	1
83	Diseases of veins	14	..	..	..	..	..	..	..	....	....	....	1	....	....	....	1	....
84	Diseases of lymphatics	5	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....
85, 86	Other diseases of circulatory system	55	..	..	..	1	..	..	..	....	....	1	2	2	2	....	1	1
	IV. DISEASES OF RESPIRATORY SYSTEM.																	
88	Laryngitis	31	..	..	1	..	3	..	..	....	1	....	2	....	....	....	....	....
	Other diseases of larynx	29	..	..	..	..	..	..	..	....	2	....	....	....	....	....	....	....
89	Diseases of thyroid body	11	..	..	..	..	..	..	..	....	1	....	....	....	1	....	....	....
90	Acute bronchitis	535	1	..	8	7	7	1	3	3	11	1	5	4	5	3	7	5
91	Chronic bronchitis	334	..	..	3	3	2	2	..	5	9	1	4	1	12	1	....	2
92	Bronchopneumonia	490	2	4	10	4	2	3	..	1	8	4	4	1	10	2	....	2
93	Pneumonia	2,411	10	2	33	13	21	9	6	17	73	16	32	13	46	15	6	19
94	Pleurisy	89	..	..	..	..	..	..	..	....	1	1	2	....	1	....	....	1
95	Congestion of lungs	194	..	..	6	..	..	2	..	2	3	2	1	1	7	....	....	1
96	Gangrene of lungs	11	..	..	..	1	..	..	..	....	....	....	....	....	....	1	....	....
97, 98	Asthma and emphysema	122	..	1	3	2	..	1	..	....	7	....	1	1	....	2	....	....
87, 99	Hemorrhage of lungs	39	..	..	..	1	..	..	..	....	....	....	1	1	....	....	....	....
	Other diseases of respiratory system	81	..	..	..	..	..	1	..	....	2	2	3	1	3	1	1	....
	V. DISEASES OF DIGESTIVE SYSTEM.																	
100	Diseases of mouth	28	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	1
101, 102	Tonsilitis	30	..	..	..	..	1	..	..	....	1	2	....	1	....	....	....	....
	Other diseases of pharynx	29	..	1	..	..	..	..	..	....	....	....	1	....	2	....	1	....
103	Ulcer of stomach	75	..	..	..	1	..	..	..	....	1	....	2	1	2	....	....	1
104	Gastritis	189	..	..	6	2	1	..	1	1	10	1	5	....	6	2	....	1
	Other diseases of stomach	244	1	..	3	1	1	..	1	4	14	....	3	4	12	4	2	3
(314)	Dentition	9	..	..	..	..	..	..	1	....	1	1	....	....	....	....	....	....
105	Diarrhea and enteritis (under 2 years)	1,768	..	5	12	13	8	9	2	5	54	16	28	9	9	6	10	13
106	Diarrhea and enteritis (over 2 years)	526	..	1	7	5	4	2	2	6	13	3	19	10	15	4	2	3
108	Hernia	93	..	..	5	1	..	1	..	1	2	....	3	....	3	1	....	....
	Obstruction of intestines	239	..	..	5	..	1	..	..	2	4	1	6	6	5	3	2	1
107, 109	Other diseases of intestines	76	..	..	2	1	..	1	..	2	1	....	1	....	....	....	....	....
110	Acute yellow atrophy of liver	18	..	..	..	..	..	1	..	....	....	....	....	....	....	....	....	....

by counties, during the year 1901. (Stillbirths excluded.)

to Keweenaw.

Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	G'd Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Classification No.
2	..	..	..	..	1	..	..	1	..	....	1	1	....	2	1	1	....	....	....	....	1	2	....	4	....	82
..	..	..	..	1	..	..	..	1	..	1	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	83
..	..	..	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	84
2	..	..	..	..	..	..	1	..	..	1	....	1	....	3	....	3	....	....	....	....	1	1	....	3	....	85-86
..	..	..	..	..	1	2	..	..	..	....	....	1	....	5	....	1	....	....	....	....	2	....	....	....	....	88
1	..	..	..	2	..	..	..	1	..	....	....	....	1	....	....	1	....	1	....	....	....	1	....	1	....	
..	..	..	..	..	..	1	..	..	..	....	....	....	....	....	1	....	....	....	....	....	....	....	2	....	....	89
9	..	3	2	7	9	..	1	12	1	10	7	3	....	31	9	2	5	2	3	5	7	7	1	31	....	90
1	2	3	1	2	2	..	2	8	1	....	3	7	5	2	1	3	7	....	2	2	10	10	....	27	1	91
5	1	..	..	5	4	4	..	5	..	7	1	7	4	23	6	4	7	5	1	1	3	14	2	29	....	92
21	4	33	2	15	19	35	21	56	5	15	16	36	26	57	26	38	24	12	5	12	88	34	6	104	1	93
..	1	2	..	2	1	..	..	2	..	1	1	....	2	1	1	....	....	....	....	....	1	1	1	2	....	94
..	1	2	1	2	..	..	2	1	..	1	2	3	1	2	1	3	2	1	....	4	5	4	1	39	....	95
..	..	..	..	..	..	1	..	..	..	....	....	....	....	3	....	....	....	....	....	....	....	....	....	1	....	96
1	..	2	..	..	..	2	2	2	1	....	....	....	....	2	3	1	2	....	....	....	6	....	....	5	1	97, 98
..	..	..	..	..	..	..	..	1	..	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	87, 99
2	..	..	..	..	..	2	..	2	..	1	1	....	....	....	1	1	2	....	....	....	3	....	....	4	....	
1	..	..	..	..	1	..	..	..	..	1	1	....	....	1	1	1	1	1	....	2	....	1	....	1	....	100
1	..	..	..	..	..	3	..	1	1	1	....	....	....	1	....	....	....	1	1	....	....	....	1	1	....	101, 102
..	..	..	..	..	..	..	..	..	..	....	....	....	2	1	....	....	....	1	1	1	....	1	1	1	....	
1	..	..	..	1	1	3	..	3	..	1	....	1	1	....	2	1	2	....	....	2	2	....	....	5	....	103
1	..	1	..	3	1	..	2	6	..	....	2	3	....	6	....	4	1	....	2	....	3	1	....	10	....	104
3	1	3	..	1	..	3	2	6	..	4	2	5	4	3	4	2	2	2	1	1	7	1	....	13	1	
..	..	..	..	1	..	..	..	..	..	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	(314)
28	2	7	2	23	28	7	15	15	10	37	19	12	14	98	21	14	14	3	11	24	18	38	8	77	5	105
3	2	2	1	2	1	6	5	8	3	1	5	7	4	9	3	6	5	3	1	7	8	12	....	29	....	106
1	..	..	..	..	..	2	..	..	..	....	2	1	....	3	1	....	1	....	....	1	1	1	1	5	....	108
1	..	4	..	3	1	2	2	5	1	1	2	2	2	1	3	6	2	1	....	1	4	6	....	7	....	
2	..	2	..	1	..	1	2	2	..	....	2	....	1	2	....	....	1	....	....	....	5	2	1	8	....	107, 109
..	..	..	..	..	..	..	..	..	..	....	....	....	....	....	....	2	....	....	1	....	....	1	....	1	....	110

TABLE IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1901.	State.	Counties—Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.
111	Hydatid tumors of liver	....	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....
112	Cirrhosis of liver	211	2	..	1	2	..	1	..	....	5	1	5	1	2	3	....	....
113	Biliary calculi	50	..	..	..	..	..	..	..	....	....	....	....	....	1	....	....	....
114	Other diseases of liver	219	..	..	3	2	1	1	..	2	7	....	7	4	7	2	....	2
115	Diseases of spleen	7	..	..	..	..	..	..	..	....	....	....	1	....	....	....	....	....
116	Peritonitis	277	..	..	4	3	1	2	..	4	4	1	2	7	1	1	1	4
118	Appendicitis	263	1	1	5	2	1	..	..	1	4	1	4	2	10	2	....	....
117	Other diseases of digestive system	3	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....
	VI. DISEASES OF GENITO-URINARY SYSTEM.																	
119	Acute nephritis	71	..	..	1	..	..	..	..	1	4	1	....	1	3	1	....	....
120	Bright's disease	1,050	3	1	11	5	1	..	2	8	25	2	26	14	23	15	6	2
121	Other diseases of kidneys	107	..	..	1	..	2	1	..	1	3	....	2	7	3	....	....	1
122	Calculi of urinary tract	14	..	..	..	..	..	..	..	....	....	....	....	1	1	1	....	....
123	Diseases of bladder	138	..	..	2	..	1	..	..	3	....	....	3	....	6	1	....	1
129	Uterine tumor	42	..	..	..	..	..	1	..	....	1	....	1	....	3	1	....	....
127, 128, 130	Other diseases of uterus	58	2	..	1	..	1	..	..	1	1	....	....	....	....	....	....	....
131	Ovarian tumor	49	..	..	1	..	..	..	..	1	1	....	....	....	1	....	....	....
124-126, 132, 133	Diseases of tubes	2	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....
	Other diseases of genito-urinary system	117	..	1	2	..	..	..	..	....	2	1	....	1	4	1	....	....
	VII. CHILDBIRTH.																	
137	Puerperal septicemia	267	1	..	3	3	3	..	..	6	9	2	14	1	5	1	1	5
138	Puerperal convulsions	81	1	..	3	1	..	..	..	....	4	1	4	2	....	1	1	....
134 136, 139 141	Other causes incident to childbirth	183	..	..	1	1	2	..	1	3	6	....	....	....	3	....	2	1
	VIII. DISEASES OF SKIN.																	
142	Gangrene	98	1	..	3	1	..	..	1	1	2	....	2	....	4	....	....	1
143	Carbuncle	12	..	..	1	..	..	..	..	....	2	....	....	....	....	1	....	....
144	Abscess	38	..	..	..	..	..	1	..	....	....	....	....	....	....	....	1	....
145	Other diseases of skin	24	..	..	..	1	1	..	..	....	....	....	....	....	2	....	....	....
	IX. DISEASES OF LOCOMOTOR SYSTEM.																	
146	Diseases of bones	41	..	..	..	..	..	..	..	....	2	....	....	....	1	....	....	....
147	Diseases of joints	3	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....
148 149	Other diseases of locomotor system	2	..	..	1	..	..	..	..	....	....	....	....	....	....	....	....	....

by counties, during the year 1901. (Stillbirths excluded.)

to Keweenaw.																									Classification No.
Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	Gd. Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	
..	..	..	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	111
1	..	1	..	1	2	4	..	1	..	....	1	2	4	4	3	6	5	1	....	4	4	4	....	14	....	112
..	..	3	..	..	1	1	2	2	..	....	2	....	....	....	....	....	1	....	....	....	1	....	....	2	....	113
..	3	4	..	..	..	4	1	4	..	1	1	1	4	3	1	2	6	1	....	1	3	5	1	14	1	114
..	..	..	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	115
6	1	5	..	3	1	3	..	5	1	....	1	2	4	5	7	7	2	....	....	....	10	2	2	14	....	116
2	..	3	..	1	2	5	2	5	1	1	2	1	2	9	7	3	....	....	1	4	5	11	....	10	....	118
..	..	..	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	117
1	1	..	..	..	..	1	..	2	..	....	....	2	2	2	....	...	....	1	....	....	3	1	....	6	1	119
5	5	13	..	9	6	18	5	17	1	1	14	10	20	13	17	25	14	4	1	10	28	23	1	67	....	120
..	..	2	..	..	..	..	3	2	..	....	2	3	4	1	....	2	2	....	....	3	....	3	....	6	....	121
..	..	..	..	..	..	..	..	..	..	....	1	....	....	1	....	....	....	....	....	....	1	....	....	....	....	122
1	..	1	..	..	1	2	4	7	1	....	1	3	5	....	2	3	2	2	....	1	2	8	...	8	....	123
..	..	..	..	..	..	..	..	..	..	....	....	1	....	1	....	....	....	....	....	....	2	1	....	4	....	129
1	..	..	..	2	..	..	..	..	..	....	....	....	....	....	1	....	1	....	....	1	1	3	....	4	....	127, 128, 130
..	..	1	..	..	..	2	..	2	..	....	....	1	1	1	....	3	1	....	1	....	3	3	....	5	....	131
1	..	1	..	..	..	1	2	1	1	....	1	1	....	3	2	2	5	....	1	1	1	....	....	6	....	124-126, 132, 133
5	..	1	..	5	1	..	3	2	2	....	1	3	3	4	6	9	6	1	2	4	5	2	....	8	1	137
1	..	..	..	2	..	3	1	1	..	1	....	1	3	1	2	....	....	....	....	1	1	1	....	5	....	138
1	..	2	..	2	2	1	1	..	1	....	1	2	....	7	2	2	1	....	....	2	5	....	1	9	1	134-136, 139-141
1	..	1	..	1	..	4	..	..	..	1	....	....	1	1	....	1	3	1	....	....	2	1	....	5	....	142
..	..	..	..	1	..	..	..	..	..	....	....	....	2	....	....	....	....	....	....	....	1	1	....	....	....	143
..	..	2	..	1	1	1	1	..	..	2	....	....	....	....	1	....	1	....	....	....	1	2	....	3	....	144
..	..	..	.	..	..	2	..	..	..	1	1	....	..	1	1	....	1	....	....	....	1	....	....	....	....	145
..	..	..	..	1	..	1	..	..	..	1	....	....	....	1	....	2	....	....	....	1	....	....	....	2	2	146
..	..	..	..	1	..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	147
..	..	..	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	148-149

TABLE IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1901.	State.	Counties—Alcona	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.
	X. MALFORMATIONS.																	
	Hydrocephalus	54	..	..	..	..	..	..	..	1	1	....	2	....	1	1	....	....
150	Congenital malformation of heart (cyanosis)	101	1	..	..	1	4	1	..	2	3	....	7	....	3	2	3	1
	Other congenital malformations	151	..	1	2	..	1	..	..	1	2	1	3	1	3	....	2	....
	XI. EARLY INFANCY.																	
151-153	Premature birth	524	2	..	1	6	3	2	..	2	3	2	11	7	15	1	3	5
	Congenital debility	677	1	7	14	6	2	6	1	2	13	4	11	6	5	4	14	6
	XII. OLD AGE.																	
154	Old age	1,193	..	1	27	9	7	6	..	4	18	4	14	18	19	14	5	4
	XIII. VIOLENCE.																	
155	Suicide by poison	76	..	..	2	..	..	..	..	2	1	....	1	1	3	1	....	....
156	Suicide by asphyxia	.....	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....
157	Suicide by hanging	50	..	..	1	..	..	1	..	....	2	....	1	....	1	....	1	....
158	Suicide by drowning	20	..	..	1	..	..	..	..	....	....	....	....	....	....	....	....	....
159	Suicide by firearms	54	..	1	3	..	..	..	..	1	....	....	4	....	1	2	....	1
160	Suicide by cutting instrum'ts	18	..	..	1	..	..	..	..	....	....	....	....	....	3	....	....	....
161	Suicide by jumping from high places	1	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....
162	Suicide by crushing	2	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....
163	Suicide by other or unspecified means	17	..	..	..	..	..	1	..	....	....	....	....	1	2	....	....	....
164,165	Fractures and dislocations	223	..	..	1	..	..	1	..	....	2	....	3	7	7	2	1	1
167	Burns and scalds	178	1	..	2	2	4	3	..	2	7	....	5	1	3	....	2	....
169	Heat and sunstroke	55	..	..	..	1	1	..	..	....	....	....	2	....	2	....	....	1
170	Cold and freezing	14	..	..	..	..	..	..	..	....	2	....	....	....	....	....	1	....
(171)	Lightning	28	..	..	4	..	1	..	..	....	....	....	....	....	....	1	....	....
172	Drowning	299	..	..	2	2	3	..	2	....	8	3	8	1	2	1	5	6
174	Inhalation of poisonous gases	16	..	..	..	..	..	..	..	....	....	....	....	....	1	....	....	....
175	Other accidental poisonings	79	..	1	3	1	1	..	..	1	....	....	1	1	2	....	1	....
	Accidental gunshot wounds	99	..	..	2	..	2	1	..	....	1	....	2	....	1	1	....	....
	Injuries by machinery	57	..	..	..	..	..	..	..	....	2	1	....	....	1	....	....	....
	Injuries in mines and quarries	97	..	..	..	..	..	..	1	....	....	....	....	....	....	....	....	....
166	Railroad accidents and injuries	244	..	..	4	1	3	..	1	....	3	1	4	....	10	1	3	1
	Injuries by vehicles and horses	70	..	..	5	..	..	..	1	....	3	....	1	....	1	....	....	1
	Injuries by electric cars	21	..	..	..	..	..	..	..	....	....	....	....	....	1	....	....	....

by counties, during the year 1901. (Stillbirths excluded.)

to Keweenaw.

Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	G'd Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Classification No.
1	..	..	..	1	..	..	1	..	..	....	1	1	....	4	3	....	....	....	....	1	1	1	....	2	....	
..	..	1	..	2	1	1	2	4	1	....	1	....	....	4	1	3	1	....	1	....	3	....	....	7	....	150
..	1	1	..	1	1	1	1	1	..	1	3	3	3	3	2	....	1	1	....	....	3	2	2	3	2	
4	4	2	..	3	8	5	5	4	1	7	8	4	2	24	9	3	8	2	3	6	8	7	1	26	....	
11	4	4	1	12	14	3	8	6	..	12	4	3	2	33	5	7	6	....	3	5	10	8	2	36	....	151-153
8	5	11	..	6	2	12	6	35	3	1	9	14	20	11	15	19	17	7	2	13	20	18	2	71	1	154
2	..	2	..	..	..	..	..	3	..	....	....	....	....	....	1	1	1	....	....	....	2	4	....	8	....	155
..	..	..	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	156
..	1	..	..	..	..	1	..	1	..	1	1	1	1	....	2	....	4	....	....	....	....	2	....	2	....	157
1	..	..	..	..	1	..	..	..	..	....	1	....	....	1	....	1	1	1	....	....	....	....	....	5	....	158
1	..	1	..	..	2	1	1	1	..	....	1	....	2	2	....	....	1	....	1	....	2	2	1	4	....	159
1	..	..	..	..	..	1	..	..	..	....	....	....	....	2	....	....	....	....	....	....	1	1	....	1	1	160
..	..	..	..	..	..	..	..	..	..	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	161
..	..	..	..	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	162
..	..	..	..	..	..	..	..	..	..	....	....	1	....	1	....	....	....	....	....	....	....	....	....	1	....	163
1	..	1	..	4	4	5	..	6	..	3	....	1	3	14	1	5	2	1	4	....	7	4	....	9	1	164, 165
2	2	3	..	3	..	2	..	2	1	3	2	2	1	6	2	1	1	....	1	1	4	3	....	8	....	167
1	..	..	..	1	..	..	..	..	..	....	....	....	....	4	1	....	1	....	....	....	....	2	....	3	....	169
..	..	..	..	..	..	..	1	..	..	....	....	....	1	....	....	....	....	....	....	1	1	....	....	....	....	170
..	..	..	..	..	..	2	..	..	..	....	1	2	....	....	....	1	1	1	....	....	1	....	....	....	....	(171)
16	1	1	..	9	4	2	1	5	..	3	....	....	....	33	3	2	6	12	2	....	....	7	....	6	2	172
1	..	..	..	..	..	..	..	..	3	....	....	....	....	2	....	....	....	....	....	....	1	1	....	2	....	174
1	..	..	..	1	..	3	..	..	2	1	....	2	....	....	1	2	1	....	....	....	2	2	....	7	....	175
1	..	..	..	1	..	..	..	1	..	1	1	4	2	4	2	3	....	....	3	1	1	1	....	2	1	
..	..	1	..	1	..	..	..	..	..	....	....	....	....	1	....	....	....	....	....	....	....	....	1	....	....	
..	..	..	..	..	19	..	..	1	..	17	....	....	....	31	....	....	....	....	3	....	....	1	....	....	....	
1	3	1	..	6	5	2	4	9	..	1	1	....	1	3	1	5	1	....	1	....	4	9	....	10	....	166
1	..	1	1	1	..	1	1	2	..	....	2	1	1	1	3	....	2	....	1	....	....	....	....	3	....	
..	..	..	..	..	..	..	..	..	..	....	....	....	....	....	....	1	....	....	....	....	....	1	....	1	....	

TABLE IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1901.	State.	Counties—Alcona														
			Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.
	Suffocation	30	..	..	..	..	1	..	..	1	....	....	....	....	....	....	....	....
166, 168, [171], 176	Other accidental injuries	391	1	..	5	3	7	2	1	6	7	....	4	5	9	2	5	5
	Injuries at birth	77	..	..	..	2	..	1	1	1	4	....	1	1	2	1	1	1
	Homicide	35	..	..	1	..	1	..	..	....	....	....	1	....	....	....	....	....
	XIV. Ill-Defined Diseases.																	
177	"Dropsy"	192	1	1	2	1	..	1	2	1	6	1	6	....	5	2	3	1
	"Heart failure"	128	2	..	7	3	1	..	..	2	10	1	3	1	7	....	....	2
178, 179	Other ill-defined diseases	420	..	3	4	2	1	..	..	5	8	2	8	1	9	2	....	5
	Unknown (or unspecified)	311	2	3	..	9	3	4	6	....	7	1	3	....	3	1	4	....

by counties, during the year 1901. (Stillbirths excluded.)

to Keweenaw.																										
Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	G'd Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Classification No.
..	..	..	..	..	..	..	1	1	..	....	....	1	....	2	....	....	....	....	....	....	....	1	....	2	....	
8	2	5	2	8	7	4	3	5	..	3	5	7	5	13	2	3	6	2	1	5	4	8	3	20	....	166, 168
..	..	..	..	5	..	..	2	4	..	....	1	1	....	....	1	....	1	....	2	....	....	....	....	4	....	[171],176
1	..	..	..	..	1	..	1	1	2	1	....	....	....	3	....	....	....	....	5	....	2	....	....	....	1	
..	..	..	..	2	..	3	3	3	..	....	4	6	2	4	2	1	3	....	....	1	5	1	2	3	....	177
3	..	..	..	1	..	..	1	..	..	....	1	1	2	2	....	1	3	1	....	1	1	1	....	1	....	
6	2	10	..	4	4	2	..	7	2	5	3	4	2	14	4	3	....	1	4	1	7	6	1	21	....	178,179
16	2	1	1	11	2	..	4	4	4	11	1	1	....	11	18	2	1	1	2	10	....	3	1	2	1	

TABLE IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1901.	Counties—Lake.	Lapeer.	Leelanau.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.
	ALL CAUSES	58	415	122	704	252	43	82	483	305	507	255	275	294	193	86	418	419
	I. GENERAL DISEASES.																	
	(*A. Epidemic Diseases.*)																	
1	Typhoid fever	2	10	2	18	8	1	2	13	6	8	5	4	9	9	2	9	2
1	Typho-malarial fever	..	1	....	....	....	..	..	....	....	....	....	....	....	....	..	1	....
4	Malarial fever	..	....	....	6	1	..	..	2	2	....	1	2	....	1	..	4	....
5	Smallpox	..	....	....	1	....	..	..	....	....	1	....	....	....	....	..	....	....
6	Measles	..	....	....	....	....	..	..	1	....	4	....	....	....	....	..	....	6
7	Scarlet fever	..	1	....	3	....	..	..	9	7	10	1	....	3	1	..	3	3
8	Whooping cough	..	1	2	2	....	..	..	3	....	....	....	2	7	1	..	1	8
9	Diphtheria	..	13	1	4	2	..	1	5	1	10	....	1	5	5	4	3	....
9	Croup	..	....	....	....	....	..	..	....	2	1	....	....	1	1	..	....	....
9	Membranous croup	..	1	....	1	....	..	..	3	1	1	....	....	1	....	..	....	....
10	Influenza	2	19	2	38	14	..	2	16	7	1	6	18	5	7	3	17	24
13	Cholera nostras	..	....	1	2	....	..	..	1	....	....	....	....	....	....	..	1	....
14	Dysentery	..	4	....	2	3	1	..	4	1	4	2	....	2	1	1	4	4
18	Erysipelas	..	....	....	3	2	1	..	1	1	1	....	....	....	....	..	3	1
19	Chicken pox	..	....	....	....	....	..	..	....	....	....	....	....	....	....	..	1	....
19	German measles	..	....	....	....	....	..	..	....	....	....	....	....	....	....	..	....	....
19	Mumps	..	....	....	....	....	..	..	....	....	....	....	....	....	....	..	....	....
19	Other epidemic diseases	..	....	....	....	....	..	..	1	....	....	....	....	....	....	..	....	....
	B. (Other General Diseases.)																	
20	Septicemia	2	1	....	4	2	..	..	4	1	2	1	1	1	....	..	....	2
27	Tuberculosis of lungs	4	26	6	48	17	2	11	36	16	42	24	13	16	11	1	29	37
26	Tuberculosis of larynx	..	....	....	....	....	..	..	....	....	....	....	....	1	....	..	....	....
28	Tuberculous meningitis	..	2	....	2	....	..	..	....	1	3	....	....	2	....	..	1	1
29	Abdominal tuberculosis	..	2	....	2	1	..	..	....	....	1	3	1	1	....	..	2	1
30	Pott's disease	..	1	....	....	....	..	..	....	....	1	....	2	1	....	..	....	2
31	Tuberculous abscess	..	....	....	....	....	..	..	1	....	....	....	....	....	....	..	....	....
32	White swelling	..	....	....	....	....	..	..	....	....	1	....	....	....	....	..	....	....
33	Tuberculosis of other organs	..	....	....	....	1	..	..	....	1	1	....	1	1	....	..	....	....
34	General tuberculosis	..	1	....	....	1	..	..	....	....	....	....	....	....	1	..	....	....
35	Scrofula	..	1	....	....	....	..	..	1	....	1	....	....	....	....	..	....	....
6-38	Venereal diseases	..	2	1	....	....	1	..	....	1	....	....	....	....	....	..	....	1
39	Cancer of mouth	..	....	....	1	....	..	..	....	....	....	....	....	....	....	..	1	....

by counties, during the year 1901. (Stillbirths excluded.)

to Wexford.

Montmorency.	Muskegon.	Newaygo.	Oakland	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	St. Clair.	St. Joseph.	Sanilac.	Schoolcraft.	Shiawassee.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Classification No.
32	446	209	664	211	99	83	185	6	83	487	108	27	1,091	770	356	349	113	457	509	495	655	5,503	215	
1	8	6	6	3	4	2	4	..	4	11	4	....	20	22	3	3	1	4	7	4	7	70	13	1
..	1	1	2	....	1	..	....	..	..	2	....	....	1	1	....	1	....	....	....	....	....	6	....	
.	2	....	2	2	1	..	....	..	1	2	....	....	8	2	....	3	....	....	6	2	....	10	2	4
..	....	....	....	....	..	..	1	..	..	....	....	....	4	2	....	....	....	1	....	3	....	1	1	5
..	....	....	....	....	..	1	....	..	..	2	....	....	1	1	....	....	....	....	....	1	....	14	....	6
..	....	1	3	1	..	2	....	..	1	1	....	....	6	4	....	3	5	2	21	....	8	58	3	7
..	2	1	....	....	2	..	1	..	..	2	....	....	3	1	....	....	....	1	....	6	1	37	2	8
..	3	1	3	2	..	2	....	..	1	3	5	....	29	10	....	6	6	5	7	6	7	51	4	
..	1	....	....	2	..	..	....	..	..	3	3	....	5	2	....	1	....	1	1	....	....	7	....	9
..	....	....	1	....	1	1	1	..	..	5	1	....	3	....	....	....	3	2	1	....	2	6	1	
1	11	9	32	12	8	3	3	..	1	17	2	....	31	40	12	13	2	23	19	10	25	117	11	10
..	....	2	2	1	..	..	....	..	..	1	....	....	2	2	....	....	....	1	....	2	....	7	....	13
..	6	3	4	2	..	1	1	..	1	5	....	....	1	2	....	1	....	6	2	4	3	23	2	14
..	1	1	9	2	1	..	....	..	..	1	....	1	5	2	1	1	....	....	3	....	3	20	1	18
..	....	....	....	....	..	..	....	..	..	....	....	....	.....	....	....	....	....	....	....	....	....	.....	....	
..	....	....	....	....	..	..	....	..	..	....	....	....	.....	....	....	....	....	....	....	....	....	2	....	
..	....	....	....	....	..	..	....	..	..	....	....	....	.....	....	....	....	....	....	....	....	....	2	....	19
..	....	....	....	....	..	..	....	..	..	....	....	....	.....	....	....	....	....	....	....	....	....	2	....	
1	....	1	3	....	..	..	1	..	..	2	1	....	6	3	2	1	....	3	....	3	4	10	1	20
4	37	12	37	9	3	9	15	1	3	30	5	4	74	30	26	21	6	31	38	31	42	395	13	27
1	....	....	....	....	..	..	1	..	..	1	....	....	1	....	....	....	....	2	....	....	1	2	....	26
..	4	2	2	....	..	..	1	..	1	....	....	....	.....	2	1	1	....	1	....	....	....	19	1	28
..	4	2	6	....	..	..	....	..	..	3	....	....	6	2	2	2	....	4	2	3	3	19	1	29
..	1	....	....	....	1	..	....	..	..	1	....	....	.....	....	....	....	....	....	....	1	....	2	....	30
..	....	....	....	....	..	..	....	..	..	....	....	....	.....	....	....	....	....	....	....	....	....	.....	....	31
..	....	1	....	....	..	..	....	..	..	....	....	....	.....	....	....	....	....	....	....	....	....	3	....	32
..	....	1	1	1	..	..	1	..	..	1	....	....	1	2	....	1	....	....	1	....	2	3	....	33
..	....	....	1	....	1	..	....	..	..	....	....	....	3	3	1	....	1	....	1	2	....	8	....	34
..	1	....	1	....	..	..	....	..	..	....	....	....	1	....	....	....	....	....	....	....	....	2	1	35
.	1	1	....	....	..	..	1	..	..	....	....	....	1	....	....	1	2	....	....	....	1	48	....	36-38
..	....	1	2	....	..	..	....	..	..	....	....	....	3	1	1	....	....	....	....	1	1	4	....	39

TABLE IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1901	Counties—Lake	Lapeer.	Leelanau.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.
40	Cancer of stomach and liver	..	11	4	12	8	..	1	10	12	13	5	2	6	....	1	15	17
41	Cancer of intestines	..	..	..	4	1	..	....	....	....	....	....	1	3	....	....	2	....
42	Cancer of genital organs	2	2	1	11	2	..	....	6	2	....	1	3	2	3	....	1	2
43	Cancer of breast	..	..	..	9	1	..	....	1	1	1	1	....	....	1	1	5	3
44	Cancer of skin	..	1	1	3	2	..	....	4	....	1	....	....	....	....	....	2	1
45	Cancer of other organs	..	3	1	11	2	..	....	....	3	3	2	1	2	2	....	3	2
46	Tumors	..	..	1	..	1	..	....	....	....	....	1	....	....	1	....	1	....
47-48	Rheumatism	1	3	2	4	..	..	1	3	2	2	4	4	1	1	1	3	5
50	Diabetes	..	2	2	8	1	1	2	2	2	8	3	1	2	....	....	....	4
53-54	Anemia	..	..	1	5	2	..	....	2	....	2	1	2	....	1	....	1	2
56	Alcoholism	1	..	..	..	1	..	....	2	1	2	1	....	1	....	....	1	....
57-59	Chronic poisonings	..	1	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....
55, etc.	Other general diseases	..	2	..	1	..	.	....	1	....	2	....	....	....	2	....	1	....
	II. DISEASES OF NERVOUS SYSTEM.																	
60	Encephalitis	..	..	..	2	..	..	....	....	4	1	....	2	....	1	1	2	1
61	Meningitis	1	..	..	3	1	..	1	4	5	8	5	5	5	2	4	8	8
62	Locomotor ataxia	..	..	1	2	..	..	....	....	....	1	....	....	....	....	....	....	....
63	Other diseases of spinal cord	..	..	2	3	2	..	1	3	2	....	....	1	3	1	....	....	....
64	Apoplexy	1	24	2	24	16	1	....	25	4	6	10	9	4	1	1	24	21
65	Softening of brain	1	5	..	4	5	..	....	3	....	....	1	....	....	....	....	1	1
66	Paralysis	1	10	4	25	8	3	2	14	2	1	4	7	2	4	....	20	11
67	General paralysis of insane	..	4	..	5	3	2	....	1	1	....	....	1	....	....	....	....	2
68	Other forms of mental disease	..	..	..	..	1	..	....	1	....	2	1	....	....	....	....	1	....
(74)	Other diseases of the brain	..	..	..	1	2	..	....	1	2	3	....	1	1	1	1	2	1
69	Epilepsy	..	14	1	4	1	1	....	3	....	1	1	1	....	....	....	1	1
70-71	Convulsions	..	5	7	5	..	..	....	5	12	17	5	7	12	2	....	5	2
72	Tetanus	..	..	..	..	..	..	....	....	2	....	....	....	....	....	....	....	....
73-76	Other diseases of nervous system	..	2	1	1	1	..	1	4	....	....	1	1	....	1	....	3	5
	III. DISEASES OF CIRCULATORY SYSTEM.																	
77	Pericarditis	1	..	1	2	..	..	....	2	1	1	1	1	....	....	....	....	1
78	Endocarditis	..	..	..	1	..	..	....	3	....	1	....	....	2	....	....	1	2
79	Heart disease	4	39	9	64	31	2	5	51	12	17	17	25	9	14	5	45	28
80	Angina Pectoris	2	2	..	6	3	..	1	4	....	....	....	2	2	....	1	3	5
81	Diseases of arteries	..	2	..	2	..	..	1	....	....	....	....	2	....	....	....	....	....

by counties, during the year 1901. (Stillbirths excluded.)

to Wexford.

Montmorency.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	St. Clair.	St. Joseph.	Sanilac.	Schoolcraft.	Shiawassee.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Classification No.
..	11	3	17	3	....	4	3	....	....	12	....	....	27	19	3	4	3	8	7	9	13	92	2	40
..	1	..	1	4	....	....	....	....	1	2	....	....	3	3	2	1	....	3	..	6	5	28	....	41
..	1	1	8	3	....	....	1	....	....	3	....	1	4	5	5	....	....	3	1	5	10	36	....	42
..	4	1	4	..	....	....	....	....	....	2	....	....	5	3	1	1	1	1	3	6	3	24	1	43
..	2	..	3	..	....	....	....	....	1	....	....	....	1	5	1	3	1	....	1	....	2	5	....	44
..	2	2	4	2	....	....	1	....	....	6	....	1	6	8	1	3	....	1	4	3	6	37	1	45
..	..	..	..	1	....	....	....	....	....	1	....	....	3	3	....	2	....	....	1	1	1	4	....	46
..	4	1	5	3	....	....	1	....	....	6	....	....	5	5	1	2	1	5	2	3	2	32	....	47-48
..	7	1	3	1	....	1	....	....	....	3	....	....	9	4	4	1	....	4	4	6	7	38	2	50
..	3	2	4	1	1	....	....	....	1	6	....	....	5	9	4	4	....	4	5	3	3	30	....	53-54
..	..	2	..	..	....	1	....	....	....	....	1	....	1	1	....	1	1	....	....	..	2	9	....	56
..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	1	..	3	....	57-59
1	..	2	2	..	....	....	1	....	....	2	....	....	2	....	....	1	....	....	1	1	3	6	1	55
..	1	..	..	1	2	....	1	....	....	1	1	....	3	2	....	1	....	1	....	1	1	10	....	60
1	6	2	8	1	1	1	7	....	1	9	3	....	18	11	3	2	2	2	9	3	8	105	5	61
..	..	..	3	..	....	....	....	....	....	....	....	....	....	....	3	....	....	2	....	....	....	5	....	62
..	3	..	2	1	....	....	1	....	....	3	....	....	1	2	1	1	....	1	2	2	7	10	....	63
..	18	5	24	9	1	1	10	....	5	18	1	1	33	31	18	18	2	25	25	23	37	145	1	64
..	1	..	..	..	....	1	....	....	....	....	1	....	2	3	3	1	....	5	1	3	3	1	....	65
..	11	4	14	6	1	....	2	....	3	7	....	1	22	28	15	10	....	6	16	20	13	93	10	66
..	..	..	6	1	....	1	2	....	....	1	....	....	5	2	....	....	....	3	....	....	1	21	2	67
..	2	..	14	..	....	....	1	....	....	....	....	....	5	1	2	1	....	....	2	3	1	14	....	68
..	2	1	2	..	....	....	1	....	....	....	....	....	3	3	2	1	1	3	1	4	3	7	1	(74)
..	..	4	10	1	1	....	2	....	....	5	....	....	5	....	2	2	....	4	3	1	4	22	3	69
..	8	2	10	3	2	1	1	....	....	12	3	2	31	14	3	5	4	3	1	7	4	167	2	70-71
..	1	1	..	1	....	....	....	....	....	....	....	....	....	1	1	....	1	....	....	....	....	6	....	72
1	2	..	3	1	....	....	1	....	1	2	....	....	1	3	1	1	....	3	3	....	2	9	....	73-76
..	2	..	2	1	....	....	....	....	....	....	....	....	....	3	5	1	....	1	3	....	1	7	3	77
..	1	..	3	..	1	2	....	....	....	1	....	....	3	7	2	1	....	....	1	2	1	19	....	78
..	33	11	56	20	6	1	13	....	7	41	6	....	97	43	43	27	5	50	38	65	68	341	10	79
..	5	..	2	1	....	....	2	....	....	3	1	1	6	5	3	2	....	3	1	4	3	29	1	80
..	4	..	1	..	2	....	....	....	....	2	....	....	4	3	1	1	....	1	1	3	3	18	....	81

TABLE IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1901.	Counties—Lake	Lapeer.	Leelanau.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.
82	Embolism and thrombosis	..	..	..	..	..	..	....	....	....	1	....	1	....	....	....	....	....
83	Diseases of veins	..	..	..	..	..	..	....	....	....	....	1	....	....	....	....	1	....
84	Diseases of lymphatics	..	..	..	..	..	..	....	....	1	....	....	....	....	....	....	....	....
85-86	Other diseases of circulatory system	..	..	1	1	..	..	....	1	....	2	....	2	....	....	1	1	....
	IV. DISEASES OF RESPIRATORY SYSTEM.																	
88	Laryngitis	..	..	..	3	..	..	....	....	....	1	....	....	....	....	....	....	....
	Other diseases of larynx	..	..	..	..	..	..	....	....	....	2	....	1	1	....	1	....	....
89	Diseases of thyroid body	..	..	..	..	..	..	....	....	....	1	....	....	....	....	....	....	....
90	Acute bronchitis	3	6	2	6	..	..	1	5	2	26	....	4	5	1	1	1	3
91	Chronic bronchitis	1	3	1	13	2	..	....	4	3	6	2	2	1	1	1	6	4
92	Bronchopneumonia	..	5	..	4	6	..	1	6	6	13	1	4	3	....	4	7	1
93	Pneumonia	5	26	5	49	19	3	7	27	36	30	28	33	22	22	14	26	23
94	Pleurisy	1	1	..	4	..	1	....	2	1	1	2	....	....	1	....	....	....
95	Congestion of lungs	..	4	..	3	..	..	....	3	....	2	....	....	1	4	1	3	2
96	Gangrene of lungs	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....
97, 98	Asthma and emphysema	..	2	..	2	1	..	....	1	....	3	1	2	....	....	....	1	....
87, 99	Hemorrhage of lungs	..	1	..	1	..	..	....	....	....	....	....	....	....	....	....	....	1
	Other diseases of respiratory system	..	1	..	..	..	..	....	3	1	1	2	1	1	....	....	2	2
	V. DISEASES OF DIGESTIVE SYSTEM.																	
100	Diseases of mouth	..	..	..	..	..	..	....	....	1	....	....	....	....	....	....	....	1
101,102	Tonsilitis	..	..	..	..	..	..	....	2	....	....	1	....	1	....	....	....	1
	Other diseases of pharynx	..	..	..	..	..	..	....	2	....	1	....	....	....	....	1	....	....
103	Ulcer of stomach	..	2	..	1	..	..	....	1	1	1	....	1	1	2	....	1	3
104	Gastritis	..	3	..	2	1	..	....	1	2	5	6	3	....	3	1	4	....
	Other diseases of stomach	..	..	..	3	2	2	....	5	1	2	1	2	4	3	1	5	6
(314)	Dentition	..	..	..	..	..	..	....	1	....	....	....	....	....	....	....	....	....
105	Diarrhea and enteritis (under 2 years)	5	18	11	20	3	6	7	25	13	52	13	13	20	20	6	15	18
106	Diarrhea and enteritis (over 2 years)	1	10	2	7	8	1	4	2	2	4	1	4	4	7	1	7	10
108	Hernia	..	1	..	4	2	..	....	1	2	2	1	....	....	....	1	1	1
	Obstruction of intestines	..	..	2	6	..	..	1	6	1	2	3	2	1	9	2	2	1
107,109	Other diseases of intestines	..	1	..	3	2	..	....	1	....	1	1	....	....	1	....	....	....
110	Acute yellow atrophy of liver	..	..	1	1	..	..	....	....	....	....	....	....	....	1	....	....	....

by counties, during the year 1901. (Stillbirths excluded.)

to Wexford.

Montmorency	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	St. Clair.	St. Joseph.	Sanilac.	Schoolcraft.	Shiawassee.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Classification No.
..	3	1	4	1	....	....	1	....	....	....	1	....	2	1	....	1	....	1	....	4	1	7	....	82
..	..	..	1	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	3	....	83
..	..	..	..	..	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	2	....	84
..	2	..	..	1	....	....	2	....	....	2	1	....	....	1	....	2	....	1	....	....	1	7	....	85-86
..	1	..	1	..	....	....	....	....	....	1	....	....	1	....	....	1	....	1	....	....	....	2	....	88
..	1	..	..	..	....	....	....	....	....	1	1	....	1	....	....	....	1	1	....	2	....	5	....	
..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	1	....	1	....	89
..	6	4	3	2	3	1	6	....	1	13	1	....	7	6	4	2	1	7	11	2	4	145	2	90
..	1	2	5	..	1	....	1	....	....	9	....	....	14	7	3	4	....	6	4	5	11	62	2	91
2	6	3	14	..	1	2	2	1	....	6	....	....	8	8	2	6	....	4	19	8	6	133	3	92
4	37	19	63	13	11	8	16	....	8	31	9	1	109	60	30	32	9	30	37	36	47	415	19	93
..	3	..	..	1	1	....	....	....	1	2	....	....	5	6	2	2	1	....	1	....	2	22	1	94
..	2	2	5	..	1	....	1	....	....	8	1	....	4	2	2	3	....	4	5	5	5	16	2	95
..	1	..	1	..	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	1	....	96
..	1	1	..	..	2	1	....	....	1	1	....	1	7	5	1	....	....	2	1	1	2	34	....	97, 98
1	1	..	..	1	....	....	....	....	....	....	....	....	4	1	1	1	....	1	1	....	2	16	....	87, 99
..	1	..	2	..	1	....	1	....	....	4	3	....	1	1	2	....	....	....	....	1	....	17	....	
..	1	..	..	1	....	1	....	....	....	1	....	....	....	2	....	....	1	2	....	....	....	3	....	100
..	..	..	..	..	....	1	1	....	....	....	2	....	....	....	....	....	....	1	....	....	....	2	1	101, 102
..	..	..	1	..	....	....	....	....	....	....	....	....	....	....	1	1	....	....	3	1	....	3	1	
..	..	1	1	..	....	....	....	....	1	1	....	....	4	1	5	1	....	....	1	....	1	8	2	103
..	1	..	4	2	2	....	....	....	1	3	1	....	6	3	5	....	1	6	2	3	4	29	3	104
..	2	3	2	..	....	....	2	....	....	4	1	1	5	7	4	3	....	5	3	3	7	26	2	
..	1	..	..	..	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	(314)
2	24	11	19	22	1	8	9	....	11	20	3	....	49	39	1	13	12	22	27	15	16	419	11	105
1	4	11	9	7	1	2	3	....	1	7	....	1	12	15	9	2	6	8	13	16	15	77	2	106
..	2	..	2	1	....	....	....	....	....	2	....	....	1	2	1	2	....	....	2	1	4	20	....	108
..	9	2	5	1	1	1	1	....	....	5	1	1	16	6	3	4	....	5	....	4	4	37	2	
..	1	..	1	..	1	....	....	....	....	....	....	....	3	2	2	....	....	1	1	1	1	9	3	107, 109
..	..	..	1	..	....	....	....	....	....	1	....	....	2	....	1	....	....	....	....	....	1	3	....	110

TABLE IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1901.	Counties—Lake															
		Lake.	Lapeer.	Leelanau.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.
111	Hydatid tumors of liver	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....
112	Cirrhosis of liver	1	2	..	5	..	..	....	2	1	3	2	4	6	1	....	3	6
113	Biliary calculi	..	..	..	..	..	..	....	3	2	....	....	....	....	....	....	1	....
114	Other diseases of liver	..	4	..	9	3	..	....	1	4	1	2	....	1	1	1	2	7
115	Diseases of spleen	..	..	..	1	1	1	....	....	....	....	....	....	....	....	....	....	....
116	Peritonitis	..	4	2	8	..	1	2	2	....	4	4	4	5	2	1	4	3
118	Appendicitis	3	7	2	4	6	..	1	6	4	4	1	3	2	....	1	2	1
117	Other diseases of digestive system	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....
	VI. DISEASES OF GENITO-URINARY SYSTEM.																	
119	Acute nephritis	..	..	..	..	..	..	....	1	1	....	....	1	1	....	....	2	....
120	Bright's disease	..	12	5	16	13	..	3	19	13	15	7	9	1	2	1	13	13
121	Other diseases of kidneys	..	..	..	3	2	..	....	1	1	1	1	....	....	2	1	3	....
122	Calculi of urinary tract	..	..	1	..	..	..	....	....	....	....	1	....	....	....	....	....	1
123	Diseases of bladder	..	3	1	8	..	..	....	3	2	1	5	....	1	....	....	2	3
129	Uterine tumor	..	..	..	1	1	..	....	2	....	....	....	1	....	....	....	....	1
127, 128, 130	Other diseases of uterus	1	..	1	3	..	..	....	....	....	....	1	....	....	....	....	....	1
131	Ovarian tumor	..	1	1	1	..	..	....	1	....	....	1	....	....	....	....	....	....
124-126	Diseases of tubes	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....
132, 133	Other diseases of genito-urinary system	..	2	..	5	1	..	....	3	1	1	1	1	....	....	....	3	3
	VII. CHILDBIRTH.																	
137	Puerperal septicemia	..	3	1	4	1	..	2	4	2	4	6	5	3	....	....	4	4
138	Puerperal convulsions	..	..	2	1	1	..	....	1	1	1	....	2	1	....	1	1	4
134-136, 139-141	Other causes incident to childbirth	1	..	..	6	..	..	2	1	6	2	1	1	4	2	2	2	4
	VIII. DISEASES OF SKIN.																	
142	Gangrene	..	2	..	4	2	..	....	3	....	2	1	....	2	1	....	2	....
143	Carbuncle	..	..	..	..	..	..	....	....	....	....	1	....	....	....	....	....	....
144	Abscess	1	..	..	2	..	..	....	1	....	....	....	2	1	....	....	1	....
145	Other diseases of skin	..	..	..	..	..	..	....	....	....	1	1	....	1	....	....	....	....
	IX. DISEASES OF LOCOMOTOR SYSTEM.																	
146	Diseases of bones	..	..	..	4	..	..	....	2	3	2	2	....	1	....	....	1	....
147	Diseases of joints	..	..	..	..	..	..	....	....	....	....	....	....	1	....	....	....	....
148-149	Other diseases of locomotor system	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....

by counties, during the year 1901. (Stillbirths excluded.)

to Wexford.

Montmorency.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	St. Clair.	St. Joseph.	Sanilac.	Schoolcraft.	Shiawassee.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Classification No.
..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	111
..	2	2	6	1	....	....	....	....	1	5	1	....	7	4	5	....	1	2	2	1	1	49	....	112
..	..	2	2	..	....	....	....	....	....	1	....	....	4	1	1	....	....	....	....	3	2	12	....	113
..	3	3	..	..	2	....	3	....	1	....	....	....	7	4	....	2	....	2	4	5	4	43	1	114
..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	115
1	2	3	7	2	....	....	2	....	....	....	....	....	12	4	3	5	1	7	7	1	10	47	1	116
..	3	..	8	1	....	1	1	....	....	....	....	....	9	8	....	1	1	2	5	3	13	48	1	118
..	..	..	..	..	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	1	....	117
..	1	..	1	..	....	....	....	....	....	1	....	....	1	3	1	1	....	....	....	....	....	20	1	119
2	14	7	19	5	8	3	1	....	2	21	....	....	33	39	11	16	2	21	10	17	22	181	3	120
..	4	1	2	..	....	....	1	....	....	1	....	....	4	3	5	1	....	1	....	....	1	13	1	121
..	..	..	..	..	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	1	1	1	....	122
..	1	1	3	..	....	....	2	....	....	....	....	....	3	4	1	....	....	3	1	....	2	17	....	123
..	..	..	1	..	....	....	....	....	....	1	....	....	2	3	1	....	....	....	....	1	4	7	....	129
..	1	..	1	..	....	....	....	....	....	....	....	....	4	2	....	1	....	1	1	1	1	18	....	127, 128, 130
..	..	..	1	..	....	1	....	....	....	....	....	....	1	1	....	1	....	....	....	3	3	4	1	131
..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	124, 126, 132, 133
..	..	2	2	1	....	....	....	....	....	2	....	....	7	4	2	2	....	1	2	1	2	26	....	
..	3	..	7	1	2	....	4	....	1	4	1	1	6	7	3	6	2	1	5	2	4	36	....	137
..	1	..	2	3	....	....	....	....	....	1	....	....	3	....	1	....	....	1	1	....	2	5	3	138
..	4	..	3	1	2	....	1	1	3	1	1	1	7	5	....	6	1	2	5	1	5	34	2	134-136, 139-141
..	..	..	4	..	....	....	1	....	....	5	....	....	4	5	1	....	....	3	....	3	2	12	....	142
..	..	..	1	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	143
..	..	..	2	..	....	....	....	....	....	....	....	....	1	1	1	1	....	....	....	....	1	5	....	144
..	..	..	1	..	....	....	....	....	....	....	....	....	....	1	....	....	....	2	1	....	1	3	....	145
..	..	..	..	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	7	2	146
..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	147
..	..	..	1	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	148-149

TABLE IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1901.	Counties—Lake																
		Lake.	Lapeer.	Leelanau.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.
	X. MALFORMATIONS.																	
	Hydrocephalus	..	1	1	1	..	..	....	4	2	....	....	2	2	....	....	2	1
150	Congenital malformation of heart (cyanosis)	..	..	1	1	1	..	....	1	2	....	....	....	....	....	....	....	4
	Other congenital malformations	..	3	5	2	2	..	1	1	1	1	3	1	1	3	2	3	....
	XI. EARLY INFANCY.																	
151-153	Premature birth	..	7	..	9	3	1	1	8	8	6	5	4	8	5	2	4	8
	Congenital debility	..	6	2	3	2	..	....	8	4	12	5	1	13	4	2	....	....
	XII. OLD AGE.																	
154	Old age	2	22	6	33	7	1	3	12	12	6	13	6	6	5	3	15	11
	XIII. VIOLENCE.																	
155	Suicide by poison	..	1	1	2	..	..	1	1	....	1	....	....	....	....	....	....	1
156	Suicide by asphyxia	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....
157	Suicide by hanging	..	..	..	3	1	1	....	1	....	1	1	....	....	1	....	....	....
158	Suicide by drowning	..	1	..	..	..	..	....	....	....	....	....	....	....	....	1	....	....
159	Suicide by firearms	..	1	..	1	..	1	....	1	....	....	....	1	....	1	....	....	....
160	Suicide by cutting instrum'ts	..	1	..	..	..	..	....	1	....	....	1	....	....	....	....	....	....
161	Suicide by jumping from high places	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....
162	Suicide by crushing	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....	1	....
163	Suicide by other or unspecified means	..	..	..	..	..	..	....	1	....	....	....	1	1	....	....	....	1
164, 165	Fractures and dislocations	..	2	..	6	..	..	1	....	3	11	1	1	4	....	....	3	3
167	Burns and scalds	1	1	..	2	..	2	....	2	5	4	3	2	1	1	....	1	4
169	Heat and sunstroke	..	1	..	1	..	..	....	....	....	2	1	....	....	....	....	2	2
170	Cold and freezing	..	..	..	..	..	..	....	1	....	....	....	....	....	....	....	....	....
(171)	Lightning	..	1	..	1	..	..	....	....	....	....	....	....	1	1	....	....	1
172	Drowning	..	1	1	5	3	1	1	3	7	10	....	3	7	2	....	3	2
174	Inhalation of poisonous gases	..	..	..	..	..	..	....	....	....	....	....	....	1	....	....	....	....
175	Other accidental poisonings	..	..	..	2	..	..	....	1	1	....	....	....	....	1	....	2	....
	Accidental gunshot wounds	..	5	..	..	1	..	3	4	1	2	....	2	2	....	1	1	3
	Injuries by machinery	..	..	1	1	..	..	....	....	....	....	1	....	....	1	....	....	1
	Injuries in mines and quarries	..	..	..	..	..	..	....	....	....	19	....	....	....	....	....	....	....
166	Railroad accidents and injuries	1	..	..	22	1	..	1	....	3	2	1	1	6	....	1	5	3
	Injuries by vehicles and horses	..	3	..	3	..	..	....	1	....	....	....	1	....	1	..	1	1
	Injuries by electric cars	..	..	..	..	..	..	....	....	....	....	....	....	....	....	....	1	....

by counties, during the year 1901. (Stillbirths excluded.)

to Wexford.

Montmorency.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	St. Clair.	St. Joseph.	Sanilac.	Schoolcraft.	Shiawassee.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Classification No.
..	..	1	4	2	....	....	....	....	....	1	....	....	....	....	....	....	....	....	1	....	....	5	1	
..	..	..	..	..	....	1	2	....	....	1	....	....	2	3	2	....	....	....	1	1	1	15	1	150
1	2	..	4	2	....	3	3	....	....	1	....	....	4	2	....	3	1	2	3	5	3	29	1	
..	7	5	3	7	5	....	3	....	....	9	1	1	23	9	7	9	3	9	10	6	7	99	5	
1	6	1	5	4	2	....	1	....	1	3	2	....	12	12	4	9	2	8	11	9	13	201	7	151–153
2	22	10	33	5	....	2	16	....	4	27	3	2	44	46	14	13	2	15	23	21	22	220	6	154
..	..	..	1	2	....	....	....	....	1	....	....	....	2	1	....	1	....	....	1	2	2	19	1	155
..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	156
..	..	..	1	..	....	....	....	....	....	....	....	....	1	2	2	....	....	....	1	....	1	9	....	157
..	..	..	..	1	....	....	....	....	....	....	....	....	3	....	....	....	....	....	....	....	....	1	....	158
..	..	..	..	..	....	....	....	....	....	....	....	....	2	....	1	1	....	....	....	....	3	5	....	159
..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	1	....	160
..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	161
..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	162
..	1	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	3	....	163
..	2	..	8	2	1	....	....	....	1	....	1	....	7	4	1	2	1	7	1	2	10	36	1	164, 165
..	4	2	4	..	....	1	1	....	....	3	....	1	6	4	....	2	1	4	1	....	1	33	....	167
..	..	..	1	..	....	....	....	....	1	....	1	....	1	1	2	....	1	1	1	1	1	14	....	169
..	..	..	..	..	....	2	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	2	....	170
..	..	..	..	..	....	....	....	....	....	....	....	....	1	..	....	2	....	....	2	1	....	2	....	(171)
..	8	1	3	3	2	....	2	....	....	7	1	....	10	8	....	....	....	1	1	4	4	36	1	172
..	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4	....	174
..	1	..	1	..	....	....	....	....	1	....	1	....	4	4	2	....	1	2	1	1	....	15	1	175
1	2	1	1	1	1	1	....	....	2	....	....	....	1	3	1	1	1	1	1	3	3	9	1	
..	2	..	..	..	1	....	1	....	1	....	1	....	1	....	1	1	1	....	2	....	1	31	....	
..	..	..	..	..	....	1	....	....	....	....	....	....	4	....	....	....	....	....	....	....	....	....	....	
..	..	2	10	..	....	1	2	....	....	6	....	....	12	3	6	1	2	2	2	....	6	39	3	166
..	..	..	4	..	....	....	1	....	....	3	....	....	....	2	2	2	....	1	1	2	1	6	....	
.	1	.	..	..	....	....	....	....	....	....	....	....	....	..	....	....	....	....	....	....	....	15	....	

TABLE IV.—Concluded.—Causes of death in Michigan,

Classification No.	Causes of death, 1901.	Counties—Lake.															
		Lake.	Lapeer.	Leelanau.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.
	Suffocation	..	..	..	1	..	..	....	1	....	....	....	2	1	1	....	1	....
166, 168, [171], 176	Other accidental injuries	1	1	2	11	3	2	1	4	6	20	4	1	6	1	1	3	8
	Injuries at birth	..	..	..	..	..	..	....	1	1	2	....	....	....	....	....	1	3
	Homicide	..	..	..	1	1	..	....	....	....	1	....	1	1	....	....	...	....
	XIV. ILL-DEFINED DISEASES																	
177	"Dropsy"	..	3	3	6	1	..	....	4	1	....	....	3	3	....	....	3	5
	"Heart failure"	..	..	..	..	2	1	....	3	..	....	....	....	....	....	....	....	1
178, 179	Other ill-defined diseases	4	11	1	8	..	..	1	7	8	6	4	8	4	1	....	3	7
	Unknown (or unspecified)	1	1	1	2	..	2	5	1	8	14	2	2	17	2	2	3	4

by counties, during the year 1901. (Stillbirths excluded.)

to Wexford.

Montmorency.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	St. Clair.	St. Joseph.	Sanilac.	Schoolcraft.	Shiawassee.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Classification No.
..	..	..	1	2	....	....	....	....	....	....	....	....	2	1	2	....	1	....	1	1	....	2	....	
1	8	3	10	1	3	1	5	....	1	3	2	2	9	4	2	4	1	8	5	4	7	36	3	166, 168, [171] 176
1	2	1	1	..	....	....	....	....	2	1	....	....	1	1	....	....	....	1	1	3	2	14	1	
.	..	1	1	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	....	....	4	....	
1	2	2	5	1	1	....	1	....	....	4	1	....	3	3	1	4	....	1	3	3	3	41	2	177
..	3	..	7	2	1	3	1	....	....	2	....	1	2	6	5	1	....	3	1	3	4	14	3	
..	2	4	8	4	....	1	....	....	1	7	....	....	21	10	5	9	2	3	4	1	9	91	2	178, 179
..	3	3	2	1	....	1	2	3	1	3	28	....	6	5	1	1	3	....	1	4	3	16	1	

TABLES

RELATING TO

MARRIAGES

IN

MICHIGAN

DURING THE

YEAR 1901.

PRIMARY TABLES RELATING TO MARRIAGES IN MICHIGAN DURING THE YEAR 1901.

TABLE I.—Marriages in Michigan, by months and counties, during the year 1901.

TABLE II.—Persons married in Michigan, by ages, counties and sex, during the year 1901.

TABLE III.—Marriages and persons married in Michigan, by nativity and counties, during the year 1901.

TABLE IV.—Marriages in Michigan, by ages of males and females married, during the year 1901.

TABLE V.—Probate marriages in Michigan, by ages of males and females married during the year 1901.

NOTE.—*Secondary tables* containing marriage rates and other ratios, and *comparative tables*, displaying the facts relative to marriages in Michigan for the year 1901 in connection with previous years and other states and countries, may be found on preceding pages of this report, together with the descriptive text.

TABLE I.—Marriages in Michigan, by months and counties, during the year 1901.

State and counties.	Year, 1901.	Months, 1901.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
STATE....	24,079	1,624	1,372	1,360	1,92 2	1,779	2,537	1,934	1.897	2,376	2,642	2,321	2,211	4
Alcona.....	43	5	3	4	3	5	2	7	2	3	1	5	3	.....
Alger.....	39	3	2	1	3	2	3	8	2	2	3	4	6	.....
Allegan.....	302	18	19	32	28	25	28	18	22	20	31	22	39	.....
Alpena.....	160	10	10	6	13	13	18	10	18	23	22	11	6	.....
Antrim.....	175	18	8	10	10	21	12	15	15	13	12	19	22	.....
Arenac.....	101	5	2	7	11	14	8	8	6	9	10	11	10	.....
Baraga.....	31	2	1	1	1	3	3	4	.....	4	5	3	4	.....
Barry.....	219	20	13	27	11	14	12	11	18	19	32	23	19	.....
Bay.....	560	57	35	18	68	43	62	38	31	42	65	55	46	.....
Benzie.....	87	1	9	3	13	8	5	7	2	8	12	7	12	.....
Berrien	1,490	46	52	40	65	84	197	265	254	215	104	82	86	.....
Branch.....	298	17	17	19	27	26	35	22	20	24	28	38	25	.....
Calhoun.....	493	39	24	35	34	38	55	37	35	27	64	58	47	.....
Cass.....	201	6	14	25	14	19	17	15	16	16	18	16	25	.....
Charlevoix....	130	11	6	7	11	12	9	9	8	16	14	15	12	.....
Cheboygan....	143	7	8	2	12	13	11	12	9	17	19	16	17	.....
Chippewa.....	271	19	21	13	17	11	24	25	27	24	30	29	31	.....
Clare.....	83	7	4	3	3	3	4	9	7	9	11	9	14	.....
Clinton.....	243	17	23	14	23	17	23	7	18	17	28	30	26	.....
Crawford.....	27	1	3	1	.....	1	.....	4	4	3	6	4	.....	.....
Delta.....	239	20	16	7	23	21	26	21	21	20	24	23	17	.....
Dickinson	214	15	11	8	26	23	24	18	16	22	23	17	11	.....
Eaton.....	357	18	19	31	21	21	34	23	29	23	48	47	43	.....
Emmet.....	188	15	6	7	12	17	18	14	18	21	19	14	27	.....
Genesee.....	401	27	25	26	23	36	43	20	34	50	45	45	27	.....
Gladwin.....	68	2	4	4	6	6	5	7	2	8	6	8	10	.....
Gogebic.....	221	14	8	10	22	20	26	22	22	18	24	21	14	.....
Gr'd Traverse.	229	16	10	13	20	18	25	16	13	25	29	22	22	.....
Gratiot.....	331	20	22	23	18	19	26	28	21	27	43	34	50	.....
Hillsdale	317	23	17	38	20	11	22	18	26	33	43	29	37	.....
Houghton.....	757	49	54	31	63	51	75	63	84	68	86	84	49	.....
Huron.....	265	28	23	12	24	15	24	13	10	26	33	31	26	.....
Ingham..... .	395	23	26	34	36	23	40	25	24	39	45	41	39	.....
Ionia	382	33	22	23	20	23	35	30	25	32	47	50	42	.....
Iosco.....	71	5	3	3	7	8	8	8	7	5	5	9	3	.....
Iron.....	81	6	4	4	6	9	6	6	11	5	6	10	8	.....
Isabella.....	218	8	18	21	22	19	13	10	19	12	27	30	19	.....
Jackson.....	508	43	36	39	41	38	55	28	36	45	40	57	50	.....
Kalamazoo....	495	36	20	33	33	40	70	49	31	49	45	49	40	.....
Kalkaska.....	78	4	2	9	5	3	8	7	9	9	4	6	12	.....
Kent	1,398	74	75	87	124	131	142	104	95	138	164	142	119	3
Keweenaw....	25	1	.....	2	3	3	.....	2	2	3	5	3	1	.....
Lake	50	1	1	3	6	2	3	9	1	2	5	7	10	.....
Lapeer.....	276	14	14	16	25	15	18	18	20	30	31	32	43	.....
Leelanau.....	79	2	5	6	10	3	9	3	9	8	3	11	10	.....
Lenawee.....	423	27	33	19	28	25	40	30	34	37	44	54	52	.....
Livingston	163	14	11	18	12	13	9	11	5	14	13	21	22	.....
Luce	34	4	1	2	7	2	3	5	1	1	2	.....	6	.....
Mackinac.....	73	2	7	1	7	6	5	5	8	10	10	8	4	.....
Macomb.....	265	33	10	14	27	17	24	9	9	31	36	29	26	.....
Manistee.....	207	19	10	8	19	17	16	10	19	14	23	30	21	1
Marquette	366	28	23	18	27	33	41	33	33	38	48	29	15	.....
Mason.....	157	13	7	9	12	13	14	18	15	8	13	15	20	.....
Mecosta.....	174	13	8	22	16	5	16	12	9	14	17	22	20	.....
Menominee....	322	20	16	12	32	35	30	32	19	46	33	24	23	.....
Midland.....	125	8	8	8	14	7	14	17	7	5	15	7	15	.....
Missaukee.....	84	6	4	7	11	5	7	7	5	6	.....	7	19	.....
Monroe.....	410	27	19	13	40	22	34	18	37	33	57	69	41	.....
Montcalm.....	308	22	14	28	42	18	21	18	13	27	31	28	46	.....
Montmorency.	26	2	1	2	7	2	2	2	1	1	4	.....	2	.....

TABLE I.—Concluded.—Marriages in Michigan, by months and counties, during the year 1901.

Counties.	Year, 1901.	Months, 1901.												
		Jan.	Feb.	Mar.	Apr.	May.	Jnne.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Muskegon.....	334	19	17	22	22	35	46	31	24	26	34	32	26	.....
Newaygo.....	161	8	10	10	15	9	14	16	10	20	14	11	24	.....
Oakland.....	298	13	14	19	32	17	25	30	27	31	29	35	26	.....
Oceana.....	146	4	7	9	13	14	15	12	10	19	9	23	11	.....
Ogemaw	69	4	4	4	9	7	8	8	4	6	5	4	6	.....
Ontonagon....	51	3	4	1	4	2	7	5	4	5	6	4	6	.....
Osceola.....	170	11	9	12	23	16	14	10	6	15	15	12	27	.....
Oscoda.....	12	2	1	.....	1	1	1	.....	.....	.....	.....	3	3	.....
Otsego	73	4	2	4	3	8	10	5	6	10	8	6	7	.....
Ottawa.....	362	22	13	25	21	25	40	30	38	36	38	37	37	.....
Presque Isle..	80	6	3	.....	9	8	8	9	2	7	10	11	7	.....
Roscommon...	13	.....	.....	1	3	.....	1	2	3	1	1	.....	1	.....
Saginaw	804	53	39	29	74	59	101	57	64	73	123	65	67	.....
St. Clair.....	483	46	40	29	39	28	48	33	31	45	46	45	53	.....
St. Joseph	183	14	8	10	13	14	17	9	14	16	22	25	21	.....
Sanilac.....	296	28	18	20	24	17	20	21	17	24	40	30	37	.....
Schoolcraft...	83	6	3	2	6	4	13	7	13	4	9	10	6	.....
Shiawassee...	351	28	22	36	16	25	32	30	22	40	36	29	35	.....
Tuscola.....	316	20	29	25	24	21	31	21	23	24	32	26	40	.....
Van Buren....	332	25	21	21	20	28	36	28	25	40	32	36	20	.....
Washtenaw...	340	23	20	25	19	21	45	17	16	44	44	29	37	.....
Wayne.....	3,066	223	185	110	229	242	432	218	209	361	365	314	178	.....
Wexford.....	180	18	16	7	19	11	14	15	15	15	13	12	25	.....

TABLE II.—Persons married in Michigan, by ages, counties and sex, during the year 1901.

State and counties.	Total marriages, 1901.	Sex.	Number of persons married, by periods of age, 1901.														
			Under 20 years.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.
STATE....	24,079	Total..	7,025	18,751	11,284	4,621	2,407	1,418	921	619	441	231	200	100	30	7	3
		Males..	465	8,951	7,304	3,130	1,578	909	574	397	291	227	137	82	27	6	1
		Fem...	6,560	9,800	3,980	1,491	829	509	347	222	150	104	63	18	3	1	2
Alcona.....	43	Total..	20	42	11	4	....	1	2	3	1	2	....	....	....	..	..
		Males..	1	27	7	3	....	....	1	2	....	2	....	....	....	..	..
		Fem...	19	15	4	1	....	1	1	1	1	....	....	....	....	..	..
Alger.....	39	Total..	14	32	14	13	4	1	....	....	....	....	....	....	....	..	..
		Males..	....	13	11	12	3	....	....	....	....	....	....	....	....	..	..
		Fem...	14	19	3	1	1	1	....	....	....	....	....	....	....	..	..
Allegan.....	302	Total..	97	220	121	53	32	28	20	7	7	10	7	2	....	..	..
		Males..	8	110	81	28	23	19	12	3	4	8	4	2	....	..	..
		Fem...	89	110	40	25	9	9	8	4	3	2	3	....	....	..	..
Alpena.....	160	Total..	53	128	60	33	15	12	13	3	....	1	1	1	....	..	..
		Males..	....	56	47	25	10	9	8	2	....	1	1	1	....	..	..
		Fem...	53	72	13	8	5	3	5	1	....	....	....	....	....	..	..
Antrim.....	175	Total..	81	129	76	26	15	15	2	2	....	1	1	1	1	..	..
		Males..	7	69	53	22	7	9	2	2	....	1	1	1	1	..	..
		Fem...	74	60	23	4	8	6	....	....	....	....	....	....	....	..	..
Arenac	101	Total..	51	72	32	20	7	9	2	4	3	....	1	....	1	..	..
		Males..	3	38	26	18	3	6	1	3	1	....	1	....	1	..	..
		Fem...	48	34	6	2	4	3	1	1	2	....	....	....	....	..	..
Baraga.....	31	Total..	12	26	12	8	1	1	....	1	....	....	1	....	....	..	..
		Males..	....	12	8	8	1	1	....	....	....	....	1	....	....	..	..
		Fem..	12	14	4	....	....	....	....	1	....	....	....	....	....	..	..
Barry.....	219	Total..	74	161	90	36	15	19	11	11	10	6	2	2	1	.	..
		Males..	10	83	60	23	6	11	5	6	7	4	2	1	1	..	..
		Fem...	64	78	30	13	9	8	6	5	3	2	....	1	....	..	..
Bay	560	Total..	176	425	278	111	65	20	18	8	4	6	7	....	1	1	..
		Males..	8	213	171	76	51	14	10	4	2	4	5	....	1	1	..
		Fem...	168	212	107	35	14	6	8	4	2	2	2	....	....	..	..
Benzie	87	Total..	42	59	34	16	8	7	4	3	....	1	....	....	....	..	..
		Males..	3	33	21	14	6	4	3	2	....	1	....	....	....	..	..
		Fem...	39	26	13	2	2	3	1	1	....	....	....	....	....	..	..
Berrien	1,490	Total..	339	1,044	736	371	223	118	63	40	21	8	9	6	2	..	.
		Males..	21	485	434	220	146	78	42	29	15	6	6	6	2	..	..
		Fem...	318	559	302	151	77	40	21	11	6	2	3	....	....	..	..
Branch.....	298	Total..	95	240	112	52	35	14	7	11	9	14	5	2	....	..	..
		Males..	7	122	78	33	21	7	7	3	4	9	5	2	....	..	..
		Fem...	88	118	34	19	14	7	....	8	5	5	....	....	....	..	..
Calhoun.....	493	Total..	136	352	224	106	46	41	32	13	15	17	3	1	....	..	..
		Males..	16	171	141	65	27	19	23	7	9	11	3	1	....	..	..
		Fem...	120	181	83	41	19	22	9	6	6	6	....	....	....	..	..
Cass.....	201	Total..	79	143	61	42	22	15	11	9	10	5	5	....	....	..	..
		Males..	9	78	40	25	14	10	7	3	8	4	3	....	....	..	..
		Fem...	70	65	21	17	8	5	4	6	2	1	2	....	....	..	..
Charlevoix...	120	Total..	53	91	54	22	16	6	7	6	4	....	1	....	....	..	..
		Males..	1	46	39	17	11	4	3	5	3	....	1	....	....	..	..
		Fem...	52	45	15	5	5	2	4	1	1	....	....	....	....	..	..
Cheboygan ..	143	Total..	62	107	60	25	9	9	6	3	1	4	....	....	....	..	..
		Males..	5	59	42	17	5	7	2	2	1	3	....	....	....	..	..
		Fem...	57	48	18	8	4	2	4	1	....	1	....	....	....	..	..
Chippewa....	271	Total..	77	188	161	69	28	11	4	4	....	....	....	....	....	..	..
		Males..	1	77	113	47	19	7	3	4	....	....	....	....	....	..	..
		Fem...	76	111	48	22	9	4	1	....	....	....	....	....	....	..	..

TABLE II.—Continued.—Persons married in Michigan, by ages, counties and sex, during the year 1901.

Counties.	Total marriages, 1901.	Sex.	Number of persons married, by periods of age, 1901.														
			Under 20 years.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74	75 to 79.	80 +	Unk.
Clare	83	Total..	43	60	29	7	9	11	3	4	....	....	....	....	....	..	..
		Males..	2	38	21	5	5	7	3	2	....	....	....	....	....	..	..
		Fem...	41	22	8	2	4	4	....	2	....	....	....	....	....	..	..
Clinton	243	Total..	82	208	86	46	21	11	8	7	7	5	4	1	....	..	..
		Males..	5	102	65	29	14	7	6	3	4	5	2	1	....	..	..
		Fem...	77	106	21	17	7	4	2	4	3	....	2	....	....	..	..
Crawford	27	Total..	9	15	12	7	3	1	3	2	1	1	....	....	....	..	..
		Males..	.....	9	7	4	2	1	1	1	1	1	....	....	....	..	..
		Fem...	9	6	5	3	1	....	2	1	....	....	....	....	....	..	..
Delta	239	Total..	82	180	126	48	20	8	8	3	3	....	....	....	....	..	..
		Males..	2	82	89	36	16	5	5	2	2	....	....	....	....	..	..
		Fem...	80	98	37	12	4	3	3	1	1	....	....	....	....	..	..
Dickinson	214	Total..	66	177	110	40	25	9	....	1	....	....	....	....	....	..	..
		Males..	1	81	79	27	18	7	....	1	....	....	....	....	....	..	..
		Fem...	65	96	31	13	7	2	....	....	....	....	....	....	....	..	..
Eaton	357	Total..	131	303	131	48	26	20	16	10	12	5	7	3	2	..	..
		Males..	13	165	79	37	16	12	12	4	7	4	3	3	2	..	..
		Fem...	118	138	52	11	10	8	4	6	5	1	4	....	....	..	..
Emmet	188	Total..	54	143	88	40	22	13	4	5	2	2	2	....	....	1	..
		Males..	6	68	57	25	14	8	1	3	1	2	2	....	....	1	..
		Fem...	48	75	31	15	8	5	3	2	1	....	....	....	....	..	..
Genesee	401	Total..	129	318	168	61	43	25	19	9	9	11	6	2	2	..	..
		Males..	9	162	114	40	25	13	13	4	6	6	5	2	2	..	..
		Fem...	120	156	54	21	18	12	6	5	3	5	1	....	....	..	..
Gladwin	68	Total..	38	46	22	12	8	2	2	2	3	....	1	....	....	..	..
		Males..	2	29	17	8	5	2	1	2	1	....	1	....	....	..	..
		Fem...	36	17	5	4	3	....	1	....	2	....	....	....	....	..	..
Gogebic	221	Total..	67	160	116	54	29	9	5	1	....	1	....	....	....	..	..
		Males..	2	69	80	40	19	7	2	1	....	1	....	....	....	..	..
		Fem...	65	91	36	14	10	2	3	....	....	....	....	....	....	..	..
G'd Traverse	229	Total.	80	166	109	43	22	8	11	11	3	4	1	....	....	..	..
		Males..	5	75	79	30	17	4	6	8	2	2	1	....	....	..	..
		Fem...	75	91	30	13	5	4	5	3	1	2	....	....	....	..	..
Gratiot	331	Total..	135	274	121	43	20	20	13	13	11	5	6	1	....	..	..
		Males..	13	151	79	31	12	14	6	6	10	5	3	1	....	..	..
		Fem...	122	123	42	12	8	6	7	7	1	....	3	....	....	..	..
Hillsdale	317	Total..	102	254	133	64	22	19	15	9	8	2	3	3	....	..	..
		Males..	11	129	83	40	19	10	9	6	3	2	2	3	....	..	..
		Fem...	91	125	50	24	3	9	6	3	5	....	1	....	....	..	..
Houghton	757	Total..	181	630	438	142	74	23	8	8	2	6	1	1	....	..	..
		Males..	9	273	277	110	53	18	5	6	2	3	....	1	....	..	..
		Fem...	172	357	161	32	21	5	3	2	....	3	1	....	....	..	..
Huron	265	Total..	80	214	126	49	20	12	11	3	4	6	3	1	1	..	..
		Males..	.....	94	96	35	15	5	6	3	4	3	2	1	1	..	..
		Fem...	80	120	30	14	5	7	5	....	....	3	1	....	....	..	..
Ingham	395	Total..	99	355	167	66	39	23	17	6	4	7	1	5	....	1	..
		Males..	5	173	105	45	21	20	12	3	2	4	1	3	....	1	..
		Fem...	94	182	62	21	18	3	5	3	2	3	....	2	....	..	..
Ionia	382	Total..	101	334	148	66	32	23	18	15	11	8	2	4	2	..	..
		Males..	7	159	100	45	20	10	10	12	5	7	1	4	2	..	..
		Fem...	94	175	48	21	12	13	8	3	6	1	1	....	....	..	..
Iosco	71	Total..	24	65	26	3	5	1	3	8	3	2	1	....	1	..	..
		Males..	1	35	18	3	4	1	2	3	2	....	1	....	1	..	..
		Fem...	23	30	8	.....	1	....	1	5	1	2	..	....	....	..	..

TABLE II.—Continued.—Persons married in Michigan, by ages, counties and sex, during the year 1901.

Counties.	Total marriages, 1901.	Sex.	Number of persons married, by periods of age, 1901.														
			Under 20 years.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.
Iron	81	Total	30	59	46	17	6	4	....	....	....	....	....	....	....	..	..
		Males	2	25	35	14	4	1	....	....	....	....	....	....	....	..	..
		Fem	28	34	11	3	2	3	....	....	....	....	....	....	....	..	..
Isabella	218	Total	91	162	82	36	19	11	12	9	6	1	5	2	....	..	..
		Males	9	84	58	26	10	9	6	6	4	1	3	2	....	..	..
		Fem	82	78	24	10	9	2	6	3	2	....	2	....	....	..	..
Jackson	508	Total	133	388	229	108	55	27	28	17	14	5	8	2	1	1	..
		Males	16	179	146	66	36	13	19	11	11	3	4	2	1	1	..
		Fem	117	209	83	42	19	14	9	6	3	2	4	....	....	..	..
Kalamazoo	495	Total	121	377	232	93	60	45	24	14	11	5	3	4	1	..	..
		Males	9	182	138	60	32	32	15	11	6	4	2	3	1	..	..
		Fem	112	195	94	33	28	13	9	3	5	1	1	1	....	..	..
Kalkaska	78	Total	36	61	27	11	6	6	5	4	....	....	....	....	....	..	..
		Males	3	34	19	9	4	3	4	2	....	....	....	....	....	..	..
		Fem	33	27	8	2	2	3	1	2	....	....	....	....	....	..	..
Kent	1,398	Total	347	1,094	705	256	148	98	50	31	29	15	11	7	3	2	..
		Males	26	504	429	174	104	64	30	23	20	10	6	3	3	2	..
		Fem	321	590	276	82	44	34	20	8	9	5	5	4	....	..	..
Keweenaw	25	Total	13	22	8	3	2	1	1	....	....	....	....	....	....	..	..
		Males	1	14	4	2	2	1	1	....	....	....	....	....	....	..	..
		Fem	12	8	4	1	....	....	....	....	....	....	....	....	....	..	..
Lake	50	Total	22	41	17	10	2	3	3	....	2	....	....	....	....	..	..
		Males	1	26	12	4	2	3	....	....	2	....	....	....	....	..	..
		Fem	21	15	5	6	....	....	3	....	....	....	....	....	....	..	..
Lapeer	276	Total	103	248	94	33	15	11	11	14	8	7	4	4	....	..	..
		Males	7	131	70	21	10	8	6	7	5	4	4	3	....	..	..
		Fem	96	117	24	12	5	3	5	7	3	3	....	1	....	..	..
Leelanau	79	Total	34	60	39	16	5	....	....	2	....	....	1	1	....	..	..
		Males	2	26	31	13	5	....	....	1	....	....	1	....	....	..	..
		Fem	32	34	8	3	....	....	....	1	....	....	....	1	....	..	..
Lenawee	423	Total	109	351	188	73	37	27	18	15	14	5	6	3	....	..	..
		Males	9	180	107	47	20	19	14	8	11	2	4	2	....	..	..
		Fem	100	171	81	26	17	8	4	7	3	3	2	1	....	..	..
Livingston	163	Total	49	125	75	27	17	9	7	4	2	7	4	....	....	..	..
		Males	3	58	55	17	9	6	4	4	1	3	3	....	....	..	..
		Fem	46	67	20	10	8	3	3	....	1	4	1	....	....	..	..
Luce	34	Total	11	17	18	11	7	1	....	1	2	....	....	....	....	..	..
		Males	1	7	11	7	5	1	....	1	1	....	....	....	....	..	..
		Fem	10	10	7	4	2	....	....	....	1	....	....	....	....	..	..
Mackinac	73	Total	24	55	34	15	9	8	....	1	....	....	....	....	....	..	..
		Males	.....	27	22	11	6	6	....	1	....	....	....	....	....	..	..
		Fem	24	28	12	4	3	2	....	....	....	....	....	....	....	..	..
Macomb	265	Total	60	220	139	45	19	13	11	7	7	2	5	....	....	..	2
		Males	5	86	94	33	15	9	6	4	5	2	5	....	....	..	1
		Fem	55	134	45	12	4	4	5	3	2	....	....	....	....	..	1
Manistee	207	Total	75	167	89	40	20	12	4	5	....	1	1	....	....	..	..
		Males	3	87	61	28	14	7	2	4	....	....	1	....	....	..	..
		Fem	72	80	28	12	6	5	2	1	....	1	....	....	....	..	..
Marquette	366	Total	67	296	217	79	37	22	6	1	1	5	1	....	....	..	..
		Males	2	117	135	61	26	16	3	....	1	4	1	....	....	..	..
		Fem	65	179	82	18	11	6	3	1	....	1	....	....	....	..	..
Mason	157	Total	48	114	72	37	17	11	6	4	3	1	1	....	....	..	..
		Males	4	50	47	25	13	7	5	3	3	....	....	....	....	..	..
		Fem	44	64	25	12	4	4	1	1	....	1	1	....	....	..	..

TABLE II.—Continued.—Persons married in Michigan, by ages, counties and sex, during the year 1901.

Counties.	Total marriages, 1901.	Sex.	Number of persons married, by periods of age, 1901.														
			Under 20 years.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.
Mecosta	174	Total	83	116	62	29	23	10	7	8	5	3	....	2	....	..	..
		Males	10	66	40	20	15	5	6	6	1	3	....	2	....	..	..
		Fem.	73	50	22	9	8	5	1	2	4	....	....	....	....	..	..
Menominee	322	Total	105	263	125	63	32	17	12	10	9	6	2	....	....	..	..
		Males	9	122	90	42	23	13	6	6	7	2	2	....	....	..	..
		Fem.	96	141	35	21	9	4	6	4	2	4	....	....	....	..	..
Midland	125	Total	57	95	54	19	8	3	4	2	6	2	....	....	....	..	..
		Males	3	53	40	14	3	2	3	2	3	2	....	....	....	..	..
		Fem.	54	42	14	5	5	1	1	....	3	....	....	....	....	..	..
Missaukee	84	Total	47	64	16	16	9	5	5	4	1	1	....	....	....	..	..
		Males	7	38	11	11	6	2	4	3	1	1	....	....	....	..	..
		Fem.	40	26	5	5	3	3	1	1	....	....	....	....	....	..	..
Monroe	410	Total	113	320	197	71	51	20	21	8	5	6	6	1	1	..	..
		Males	6	159	123	45	33	10	14	4	5	5	4	1	1	..	..
		Fem.	107	161	74	26	18	10	7	4	....	1	2	....	....	..	..
Montcalm	308	Total	123	235	112	44	19	22	24	9	11	8	7	1	1	..	..
		Males	6	132	79	31	10	12	15	4	7	6	4	1	1	..	..
		Fem.	117	103	33	13	9	10	9	5	4	2	3	....	....	..	..
Montmorency	26	Total	14	11	14	6	2	2	1	1	....	....	1	....	....	..	..
		Males	.....	7	12	2	2	1	1	1	....	....	....	....	....	..	..
		Fem.	14	4	2	4	.....	1	....	....	....	....	1	....	....	..	..
Muskegon	334	Total	82	270	148	52	41	39	12	7	6	10	1	....	....	..	..
		Males	13	113	100	32	26	27	5	5	4	8	1	....	....	..	..
		Fem.	69	157	48	20	15	12	7	2	2	2	....	....	....	..	..
Newaygo	161	Total	68	122	66	26	10	8	5	7	3	2	4	1	....	..	..
		Males	3	61	53	19	7	6	2	4	1	2	2	1	....	..	..
		Fem.	65	61	13	7	3	2	3	3	2	....	2	....	....	..	..
Oakland	298	Total	67	228	137	61	41	22	10	7	8	6	5	4	....	..	..
		Males	1	102	87	43	22	17	8	4	3	4	5	2	....	..	..
		Fem.	66	126	50	18	19	5	2	3	5	2	....	2	....	..	..
Oceana	146	Total	49	100	71	29	18	7	4	4	2	2	2	4	....	..	..
		Males	1	52	40	25	14	3	3	2	1	2	....	3	....	..	..
		Fem.	48	48	31	4	4	4	1	2	1	....	2	1	....	..	..
Ogemaw	69	Total	31	49	21	18	5	1	6	4	2	....	....	1	....	..	..
		Males	.....	26	16	14	4	1	2	3	2	....	....	1	....	..	..
		Fem.	31	23	5	4	1	....	4	1	....	....	....	....	....	..	..
Ontonagon	51	Total	19	35	18	20	6	4	....	....	....	....	....	....	....	..	..
		Males	1	15	15	13	4	3	....	....	....	....	....	....	....	..	..
		Fem.	18	20	3	7	2	1	....	....	....	....	....	....	....	..	..
Osceola	170	Total	85	116	70	26	12	9	5	7	5	3	1	....	1	..	..
		Males	7	68	48	18	9	5	2	6	3	3	1	....	....	..	..
		Fem.	78	48	22	8	3	4	3	1	2	....	....	....	1	..	..
Oscoda	12	Total	6	5	5	1	1	2	1	1	1	1	....	....	....	..	..
		Males	.....	4	3	1	.....	1	1	....	1	1	....	....	....	..	..
		Fem.	6	1	2	.....	1	1	....	1	....	....	....	....	....	..	..
Otsego	73	Total	36	50	25	10	9	3	9	2	1	1	....	....	....	..	..
		Males	2	32	17	4	6	2	6	2	1	1	....	....	....	..	..
		Fem.	34	18	8	6	3	1	3	....	....	....	....	....	....	..	..
Ottawa	362	Total	103	274	182	62	44	18	12	5	11	4	5	1	2	1	..
		Males	11	127	120	39	24	12	9	4	7	4	3	1	1	..	..
		Fem.	92	147	62	23	20	6	3	1	4	..	2	....	1	1	..
Presque Isle	80	Total	40	80	29	5	4	1	....	1	....	....	....	....	....	..	..
		Males	1	49	21	5	3	....	....	1	....	....	....	....	....	..	..
		Fem.	39	31	8	.....	1	1	....	....	....	....	....	....	....	..	..

TABLE II.—Concluded. Persons married in Michigan, by ages, counties and sex, during the year 1901.

Counties.	Total marriages, 1901.	Sex.	Number of persons married, by periods of age, 1901.														
			Under 20 years.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.
Roscommon...	13	Total..	4	4	7	5	1	....	1	2	1	1	....	....	....	..	..
		Males..	.....	1	5	4	.....	....	1	1	1	....	....	....	....	..	..
		Fem...	4	3	2	1	1	....	..	1	....	1	....	....	....	..	..
Saginaw.....	804	Total..	227	643	388	159	82	46	23	21	3	10	2	4	....	..	..
		Males..	15	294	245	117	58	31	15	16	3	5	1	4	....	..	..
		Fem...	212	349	143	42	24	15	8	5	....	5	1	....	....	..	..
St. Clair.....	483	Total..	99	366	282	101	47	28	15	13	5	7	3	....	....	..	..
		Males..	5	155	173	73	31	16	11	8	3	5	3	....	....	..	..
		Fem...	94	211	109	28	16	12	4	5	2	2	....	....	....	..	..
St. Joseph.....	183	Total..	66	154	76	32	12	8	7	3	2	2	1	2	1	..	..
		Males..	6	72	54	25	9	6	3	2	2	1	1	2	....	..	..
		Fem...	60	82	22	7	3	2	4	1	....	1	....	....	1	..	..
Sanilac.....	296	Total..	102	246	131	47	30	7	12	4	5	3	4	1	....	..	..
		Males..	8	119	96	32	19	5	5	4	3	2	2	1	....	..	..
		Fem...	94	127	35	15	11	2	7	....	2	1	2	....	....	..	..
Schoolcraft...	83	Total..	24	56	47	17	8	2	6	2	2	1	1	....	....	..	..
		Males..	.....	26	29	14	5	2	2	1	2	1	1	....	....	..	..
		Fem...	24	30	18	3	3	....	4	1	....	....	....	....	....	..	..
Shiawassee....	351	Total..	99	275	143	71	29	25	14	14	11	10	6	3	1	..	1
		Males..	8	140	90	45	19	15	7	10	6	4	3	3	1	..	..
		Fem...	91	135	53	26	10	10	7	4	5	6	3	....	....	..	1
Tuscola.....	316	Total..	94	261	152	41	27	18	14	12	7	5	....	1	....	..	..
		Males..	6	119	108	29	16	13	9	7	6	2	....	1	....	..	..
		Fem...	88	142	44	12	11	5	5	5	1	3	....	....	....	..	..
Van Buren.....	332	Total..	116	261	145	54	20	23	10	9	7	6	6	7	....	..	..
		Males..	10	139	92	35	12	14	7	6	5	2	5	5	....	..	..
		Fem...	106	122	53	19	8	9	3	3	2	4	1	2	....	..	..
Washtenaw....	340	Total..	52	236	212	78	27	22	21	11	10	3	2	4	2	..	..
		Males..	3	101	124	48	15	13	13	7	8	2	1	3	2	..	.
		Fem...	49	135	88	30	12	9	8	4	2	1	1	1	....	..	..
Wayne.....	3,066	Total..	616	2,463	1,674	674	312	160	94	58	37	33	8	2	1	..	..
		Males..	26	1,085	1,030	452	208	103	62	39	26	26	6	2	1	..	..
		Fem...	590	1,378	644	222	104	57	32	19	11	7	2	....	....	..	..
Wexford.....	180	Total..	61	135	72	28	15	12	14	9	8	1	2	2	1	..	..
		Males..	1	71	52	17	10	8	8	6	3	1	1	1	1	..	..
		Fem...	60	64	20	11	5	4	6	3	5	....	1	1	....	..	..

TABLE III.—Marriages and persons married in Michigan, by nativity and counties, during the year 1901.

State and counties.	Total marriages, 1901.	(a) Marriages, by nativity, 1901.									(b) Persons married, by nativity, 1901.					
		Both native born.	Both foreign born.	Foreign male, native female.	Foreign female, native male.	Female unk.		Male unk.		Both unknown.	Native born.		Foreign born.		Unk.	
						Male.		Female.								
						Native.	Foreign born.	Native.	Foreign born.		Males.	Females.	Males.	Females	Males.	Females.
STATE.....	24,079	15,606	3,102	3,071	1,909	322	58	8	....	3	17,837	18,685	6,231	5,011	11	383
Alcona.....	43	19	11	7	6	....	....	....	....	....	25	26	18	17	....	....
Alger.....	39	15	13	7	4	....	....	....	....	....	19	22	20	17	....	....
Allegan.....	302	254	7	17	23	1	....	....	....	....	278	271	24	30	....	1
Alpena.....	160	71	27	29	27	2	4	....	....	....	100	100	60	54	....	6
Antrim.....	175	119	8	21	11	15	1	....	....	....	145	140	30	19	....	16
Arenac.....	101	56	11	27	6	1	....	....	....	....	63	83	38	17	....	1
Baraga.....	31	16	6	7	2	....	....	....	....	....	18	23	13	8	....	....
Barry.....	219	206	1	9	1	2	....	....	....	....	209	215	10	2	....	2
Bay.....	560	313	79	105	57	5	1	....	....	....	375	418	185	136	....	6
Benzie.....	87	62	5	12	5	3	....	....	....	....	70	74	17	10	....	3
Berrien.....	1,490	1,021	156	152	146	13	2	....	....	....	1,180	1,173	310	302	....	15
Branch.....	298	273	1	13	9	2	....	....	....	....	284	286	14	10	....	2
Calhoun.....	493	426	7	31	20	8	....	1	....	....	454	458	38	27	1	8
Cass.....	201	184	3	3	4	6	1	....	....	....	194	187	7	7	....	7
Charlevoix.....	130	89	7	19	5	9	1	....	....	....	103	108	27	12	....	10
Cheboygan.....	143	81	16	31	15	....	....	....	....	....	96	112	47	31	....	....
Chippewa.....	271	59	127	47	37	....	1	....	....	....	96	106	175	164	....	1
Clare.....	83	57	1	15	7	3	....	....	....	....	67	72	16	8	....	3
Clinton.....	243	216	3	15	9	....	....	....	....	....	225	231	18	12	....	....
Crawford.....	27	11	6	7	3	....	....	....	....	....	14	18	13	9	....	....
Delta.....	239	101	75	37	21	3	2	....	....	....	125	138	114	96	....	5
Dickinson.....	214	48	121	33	12	....	....	....	....	....	60	81	154	133	....	....
Eaton.....	357	328	1	18	10	....	....	....	....	....	338	346	19	11	....	....
Emmet.....	188	136	13	20	17	2	....	....	....	....	155	156	33	30	....	2
Genesee.....	401	317	12	40	20	10	2	....	....	....	347	357	54	32	....	12
Gladwin.....	68	41	9	8	8	1	1	....	....	....	50	49	18	17	....	2
Gogebic.....	221	47	131	24	18	....	1	....	....	....	65	71	156	149	....	1
Grand Traverse.	229	175	8	21	22	3	....	....	....	....	200	196	29	30	....	3
Gratiot.....	331	278	5	12	15	19	2	....	....	....	312	290	19	20	....	21
Hillsdale.....	317	273	1	10	3	29	1	....	....	....	305	283	12	4	....	30
Houghton.....	757	203	380	124	42	5	2	1	....	....	250	328	506	422	1	7
Huron.....	265	121	55	55	33	....	1	....	....	....	154	176	111	88	....	1
Ingham.....	395	324	14	30	22	5	....	....	....	....	351	354	44	36	....	5
Ionia.....	382	327	8	25	14	8	....	....	....	....	349	352	33	22	....	8
Iosco.....	71	34	11	17	6	2	1	....	....	....	42	51	29	17	....	3
Iron.....	81	15	54	9	3	....	....	....	....	....	18	24	63	57	....	....
Isabella.....	218	153	8	25	25	5	2	....	....	....	183	178	35	33	....	7
Jackson.....	508	414	14	33	26	20	1	....	....	....	460	447	48	40	....	21
Kalamazoo.....	495	385	17	38	28	25	2	....	....	....	438	423	57	45	....	27
Kalkaska.....	78	66	.....	9	2	1	....	....	....	....	69	75	9	2	....	1
Kent.....	1,398	937	165	190	102	3	....	1	....	....	1,042	1,128	355	267	1	3
Keweenaw.....	25	8	8	6	3	....	....	....	....	....	11	14	14	11	....	....
Lake.....	50	34	1	8	7	....	....	....	....	....	41	42	9	8	....	....
Lapeer.....	276	216	13	31	16	....	....	....	....	....	232	247	44	29	....	....
Leelanau.....	79	61	2	12	4	....	....	....	....	....	65	73	14	6	....	....
Lenawee.....	423	359	5	28	16	14	1	....	....	....	389	387	34	21	....	15
Livingston.....	163	147	3	5	5	3	....	....	....	....	155	152	8	8	....	3
Luce.....	34	8	14	7	4	1	....	....	....	....	13	15	21	18	....	1
Mackinac.....	73	42	12	9	7	2	1	....	....	....	51	51	22	19	....	2
Macomb.....	265	206	12	31	13	2	1	....	....	....	221	237	44	25	....	2

TABLE III.—Concluded.—Marriages and persons married in Michigan, by nativity and counties, during the year 1901.

Counties.	Total marriages, 1901.	(a) Marriages, by nativity, 1901.									(b) Persons married, by nativity, 1901.					
		Both native born.	Both foreign born.	Foreign male, native female.	Foreign female, native male.	Female unk.		Male unk.		Both unknown.	Native born.		Foreign born.		Unk.	
						Male.		Female.								
						Native.	Foreign born.	Native.	Foreign born.		Males.	Females.	Males.	Females.	Males.	Females.
Manistee	207	101	40	44	20	2	....	....	....	....	123	145	84	60	....	2
Marquette	366	110	159	73	23	....	1	....	....	....	133	183	233	182	....	1
Mason	157	109	13	17	11	6	1	....	....	....	126	126	31	24	....	7
Mecosta	174	135	7	22	8	2	....	....	....	....	145	157	29	15	....	2
Menominee	322	143	73	61	35	6	4	....	....	....	184	204	138	108	....	10
Midland	125	86	5	23	10	1	....	....	....	....	97	109	28	15	....	1
Missaukee	84	54	4	16	10	....	....	....	....	....	64	70	20	14	....	....
Monroe	410	352	9	28	17	3	1	....	....	....	372	380	38	26	....	4
Montcalm	308	250	11	29	16	1	1	....	....	....	267	279	41	27	....	2
Montmorency	26	10	4	8	3	1	....	....	....	....	14	18	12	7	....	1
Muskegon	334	207	37	55	33	2	....	....	....	....	242	262	92	70	....	2
Newaygo	161	129	5	20	7	....	....	....	....	....	136	149	25	12	....	....
Oakland	298	208	10	39	20	15	4	2	....	....	243	249	53	30	2	19
Oceana	146	114	5	12	8	7	....	....	....	....	129	126	17	13	....	7
Ogemaw	69	32	9	15	8	2	3	....	....	....	42	47	27	17	....	5
Ontonagon	51	28	10	8	4	1	....	....	....	....	33	36	18	14	....	1
Osceola	170	111	7	33	13	6	....	....	....	....	130	144	40	20	....	6
Oscoda	12	6	....	2	1	2	1	....	....	....	9	8	3	1	....	3
Otsego	73	46	12	10	5	....	....	....	....	....	51	56	22	17	....	....
Ottawa	362	247	27	48	35	1	1	1	....	2	283	296	76	62	3	4
Presque Isle	80	50	8	15	3	1	3	....	....	....	54	65	26	11	....	4
Roscommon	13	9	1	3	....	....	....	....	....	....	9	12	4	1	....	....
Saginaw	804	502	67	146	89	....	....	....	....	....	591	648	213	156	....	....
St. Clair	483	278	58	83	61	2	1	....	....	....	341	361	142	119	....	3
St. Joseph	183	166	1	9	3	4	....	....	....	....	173	175	10	4	....	4
Sanilac	296	125	50	76	42	1	1	1	....	....	168	202	127	92	1	2
Schoolcraft	83	27	25	14	14	2	1	....	....	....	43	41	40	39	....	3
Shiawassee	351	279	8	29	26	9	....	....	....	....	314	308	37	34	....	9
Tuscola	316	204	20	66	19	4	3	....	....	....	227	270	89	39	....	7
Van Buren	332	305	4	13	10	....	....	....	....	....	315	318	17	14	....	....
Washtenaw	340	269	12	37	17	5	....	....	....	....	291	306	49	29	....	5
Wayne	3,066	1,435	716	512	403	....	....	....	....	....	1,838	1,947	1,228	1,119	....	....
Wexford	180	127	18	16	14	3	....	1	....	1	144	144	34	32	2	4

TABLE IV.—Marriages in Michigan, by ages of males and females married, during the year 1901.

Ages of males married, 1901.	Ages of females married, 1901.															Total males.	Per cent of males at each age.
	Under 20.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.		
Under 20	363	100	2	.....	....	....	....	....	....	....	....	....	....	....	....	465	1.9
20 to 24	4,006	4,420	451	59	9	3	....	2	....	....	....	1	....	....	....	8,951	37.2
25 to 29	1,652	3,555	1,800	235	50	8	2	1	....	....	....	....	....	....	1	7,304	30.3
30 to 34	379	1,123	1,001	498	112	15	1	1	....	....	....	....	....	....	....	3,130	13.0
35 to 39	104	382	438	333	229	71	15	2	3	1	....	....	....	....	....	1,578	6.6
40 to 44	30	132	183	193	190	128	43	7	1	2	....	....	....	....	....	909	3.8
45 to 49	18	46	70	92	114	116	88	23	4	2	1	....	....	....	....	574	2.4
50 to 54	6	21	22	46	68	86	62	58	19	8	1	....	....	....	....	397	1.6
55 to 59	2	12	6	15	34	44	62	56	40	15	4	1	....	....	....	291	1.2
60 to 64	.....	6	5	14	11	24	43	44	41	31	6	1	1	....	....	227	0.9
65 to 69	.....	2	2	3	6	5	21	17	25	30	23	2	....	1	....	137	0.6
70 to 74	.....	1	.....	2	4	7	5	7	12	11	24	8	1	....	....	82	0.3
75 to 79	.....	.....	.....	1	1	2	3	2	5	3	4	5	1	....	....	27	0.1
80 and over	.....	.....	.....	.....	1	....	2	2	....	1	....	....	....	....	....	6	.....
Unknown	.....	.....	.....	.....	....	....	....	....	....	....	....	....	....	....	1	1	.....
Total females.	6,560	9,800	3,980	1,491	829	509	347	222	150	104	63	18	3	1	2	24,079	.....
Per cent.	27.2	40.7	16.5	6.2	3.4	2.1	1.4	0.9	0.6	0.4	0.3	0.1	....	....	....	.....	100.0

TABLE V.—Probate marriages in Michigan, by ages of males and females married, during the year 1901.

Ages of males married by judges of probate, 1901.	Ages of females married by judges of probate, 1901.												Total males.	Per cent of males at each age.
	Ages under 20 years.							Under 20.	20 to 24	25 to 29.	30 to 34.	35 to 39.		
	13.	14.	15.	16.	17.	18.	19.							
Ages under 20 years... 16...	.....	.....	.....	.....	.....	.....	.....	.....	1	....	....	....	1	2.5
17...	.....	.....	.....	.....	.....	1	.....	*1*	....	1	....	....	2	5.0
18...	.....	2	1	.....	1	.....	.....	*4*	....	....	....	....	4	10.0
19...	.....	.....	2	.....	.....	1	1	*4*	1	....	....	....	5	12.5
Under 20.....	.....	*2*	*3*	.....	*1*	*2*	*1*	*9*	*2*	*1*	....	....	*12*	*30.0*
20 to 24.....	.....	3	4	2	2	.....	.....	*11*	1	....	....	....	12	30.0
25 to 29.....	.....	.....	4	1	.....	.....	.....	*5*	3	1	....	....	9	22.5
30 to 34.....	.....	.....	1	.....	.....	.....	.....	*1*	1	1	....	....	3	7.5
35 to 39.....	.....	.....	.....	.....	.....	1	.....	*1*	....	....	....	....	1	2.5
40 to 44.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	....	1	1	2.5
45 to 49.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	....	1	1	2.5
50 to 54.....	.....	.....	.....	.....	1	.....	.....	*1*	....	....	....	....	1	2.5
55 to 59.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	.....	.....
Total females...	.....	5	12	3	4	3	1	*28*	7	3	....	2	40	.....
Per cent.....	.....	12.5	30.0	7.5	10.0	7.5	2.5	*70.0*	17.5	7.5	....	5.0	.....	100.0

NOTE.—Figures in bold face indicate marriages at illegal ages, under the general laws of the State, for one or both parties. The 40 marriages performed by judges of probate during the year 1901 were distributed by months as follows:—January, 2; February, 2; March, 5; April, 5; May, 4; June, 5; July, 3; August, 5; October, 4; November, 4; December, 1. All were white with the exception of 1 couple. By nativity, there were 31 couples both native born; 2 couples both foreign born; 5 couples with foreign foreign male and native female; 2 couples with foreign female and native male. These marriages were returned from 27 counties, the largest number reported from a county being 5. They are not included in the preceding tables of marriages.

TABLES

RELATING TO

DIVORCES

AND

CAUSES OF DIVORCE

IN

MICHIGAN

DURING THE

YEAR 1901.

PRIMARY TABLES RELATING TO DIVORCES AND CAUSES OF DIVORCE IN MICHIGAN DURING THE YEAR 1901.

TABLE I.—Divorce business in Michigan, by counties, during the year 1901, showing, according to the "Summaries" filed by the county clerks, the number of bills for divorce pending at the beginning and end of the year, number filed during the year, number withdrawn or otherwise disposed of, number contested, and the number of divorces granted and refused.

TABLE II.—Divorces in Michigan, by counties and sex of complainant, during the year 1901, showing place of marriage, number of children in family, and duration of marriage before divorce.

TABLE III.—Causes of divorce in Michigan, by sex of complainant, during the year 1901, showing place of marriage, number of children in family, and duration of marriage before divorce.

NOTE.—*Secondary tables*, containing divorce rates, etc., will be found on preceding pages of this Report, together with the descriptive text.

TABLE I.—Divorce business in Michigan, by counties, during the year 1901, showing, according to the "Summaries" filed by the county clerks, the number of bills for divorce pending at the beginning and end of the year, number filed during the year, number withdrawn or otherwise disposed of, number contested, and the number of divorces granted and refused.

State and counties.	Number of bills pending on January 1, 1901.	Number of bills filed during 1901.	Number of divorces granted, 1901.	Number of divorces refused, 1901.	Number of cases withdrawn, etc., 1901.	Number of bills pending on December 31, 1901.	Total number of cases, 1901.	Number of cases contested, 1901.
STATE	3,907	3,883	2,448	47	256	5,039	7,790	389
Alcona	3	2	1	.....	.....	4	5	.....
Alger	11	11	6	.....	1	15	22	.....
Allegan	71	52	33	.....	.....	90	123	2
Alpena	30	16	8	.....	1	37	46	.....
Antrim	16	36	15	.....	4	33	52	.....
Arenac	9	6	1	.....	2	12	15	2
Baraga	1	3	1	.....	.....	3	4	.....
Barry	55	58	37	2	26	48	113	.....
Bay	65	62	40	4	13	70	127	.....
Benzie	15	10	14	.....	.....	11	25	1
Berrien	93	83	57	.....	4	115	176	.....
Branch	54	52	30	.....	3	73	106	1
Calhoun	135	101	83	1	2	150	236	13
Cass	20	55	31	.....	1	43	75	1
Charlevoix	27	20	10	.....	.....	37	47	5
Cheboygan	24	14	14	.....	.....	24	38	.....
Chippewa	37	20	13	1	4	39	57	7
Clare	10	15	9	.....	5	11	25	1
Clinton	89	35	22	2	8	92	124	8
Crawford	2	1	2	.....	1	.....	3	.....
Delta	19	24	11	.....	1	31	43	.....
Dickinson	7	11	8	.....	.....	10	18	.....
Eaton	47	84	60	1	3	67	131	32
Emmet	33	27	20	.....	.....	40	60	.....
Genesee	155	128	61	2	10	210	283	10
Gladwin	3	9	6	.....	.....	6	12	.....
Gogebic	37	12	5	.....	.....	44	49	.....
Grand Traverse	46	40	32	.....	.....	54	86	5
Gratiot	56	77	35	.....	9	89	133	.....
Hillsdale	37	50	41	.....	2	44	87	3
Houghton	30	36	14	.....	2	50	66	9
Huron	13	22	14	.....	2	19	35	.....
Ingham	100	58	27	1	.....	130	158	.....
Ionia	89	85	42	1	4	127	174	17
Iosco	5	9	4	.....	.....	10	14	1
Iron	9	6	5	.....	.....	10	15	.....
Isabella	24	23	25	.....	2	20	47	.....
Jackson	44	125	83	.....	10	76	169	.....
Kalamazoo	49	126	90	.....	7	78	175	18
Kalkaska	27	17	16	.....	2	26	44	.....
Kent, Circuit	328	292	190	.....	5	425	620	35
Kent, Superior	30	22	17	.....	4	31	52	4
Keweenaw	.....	.....	.....	.....	.....	.....	.....	.....
Lake	8	7	5	.....	1	9	15	.....
Lapeer	43	35	23	.....	.....	55	78	4
Leelanau	4	4	6	.....	.....	2	8	.....
Lenawee	105	77	61	.....	2	119	182	1
Livingston	13	30	15	.....	12	16	43	.....
Luce	10	2	3	.....	.....	9	12	.....
Mackinac	5	4	2	.....	.....	7	9	.....
Macomb	76	47	29	1	1	92	123	11
Manistee	31	23	15	2	4	33	54	2
Marquette	28	19	8	.....	1	38	47	2
Mason	13	15	10	.....	3	15	28	2
Mecosta	29	27	18	.....	1	37	56	1

TABLE I.—Concluded.—Divorce business in Michigan, by counties, during the year 1901.

Counties.	Number of bills pending on January 1, 1901.	Number of bills filed during 1901.	Number of divorces granted, 1901.	Number of divorces refused, 1901.	Number of cases withdrawn, etc., 1901.	Number of bills pending on December 31, 1901.	Total number of cases, 1901.	Number of cases contested, 1901.
Menominee	18	17	8	.....	.....	27	35	.....
Midland	13	11	8	1	4	11	24	2
Missaukee	16	17	10	.....	5	18	33	.....
Monroe	32	41	22	1	5	45	73	7
Montcalm	54	59	37	4	.....	72	113	16
Montmorency	5	7	6	.....	.....	6	12	.....
Muskegon	55	64	44	.....	1	74	119	4
Newaygo	6	35	23	1	.....	17	41	.....
Oakland	21	56	35	1	3	38	77	.....
Oceana	38	34	27	.....	2	43	72	4
Ogemaw	6	5	3	1	.....	7	11	.....
Ontonagon	1	5	4	.....	1	1	6	.....
Osceola	19	21	17	.....	.....	23	40	.....
Oscoda	1	.....	1	.....	.....	.....	1	.....
Otsego	.....	6	.....	.....	.....	6	6	.....
Ottawa	31	23	15	.....	.....	39	54	.....
Presque Isle	8	10	5	.....	.....	13	18	.....
Roscommon	3	5	7	.....	1	.....	8	.....
Saginaw	165	131	96	.....	3	197	296	12
St. Clair	207	112	54	.....	.....	265	319	14
St. Joseph	46	38	29	.....	5	50	84	.....
Sanilac	23	18	10	.....	.....	31	41	.....
Schoolcraft	7	18	6	.....	3	16	25	3
Shiawassee	57	83	57	1	4	78	140	8
Tuscola	60	47	31	.....	2	74	107	.....
Van Buren	63	69	44	.....	4	84	132	4
Washtenaw	51	71	45	2	6	69	122	17
Wayne	406	614	350	17	42	611	1,020	90
Wexford	175	41	26	.....	2	188	216	10

TABLE II.—Divorces in Michigan, by counties and sex of complainant, during the year before

State and counties.	Sex of complainants.	Complainants in divorces granted, 1901.	Place of marriage.						Number of chil-								
			Michigan.	Ohio, Indiana, Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.	7.	8.
STATE	Total.	2,448	1,961	91	160	164	26	46	1,130	620	310	154	80	52	28	15	12
	Males.	646	495	23	57	42	10	19	349	123	79	36	22	7	10	2	2
	Fem.	1,802	1,466	68	103	122	16	27	781	497	231	118	58	45	18	13	10
Alcona	Total.	1	1							1							
	Males.																
	Fem.	1	1							1							
Alger	Total.	6	4			2			3	1	1			1			
	Males.	2	2						2								
	Fem.	4	2			2			1	1	1			1			
Allegan	Total.	33	29	2	2				12	14	3	2	1		1		
	Males.	10	8	1	1				2	5	1		1		1		
	Fem.	23	21	1	1				10	9	2	2					
Alpena	Total.	8	8						4	2	1						1
	Males.	4	4						2	1	1						
	Fem.	4	4						2	1							1
Antrim	Total.	15	13				2		7	3	2		1	2			
	Males.	7	6				1		4	1	1		1				
	Fem.	8	7				1		3	2	1			2			
Arenac	Total.	1				1								1			
	Males.																
	Fem.	1				1								1			
Baraga	Total.	1	1							1							
	Males																
	Fem.	1	1							1							
Barry	Total.	37	34	1	1			1	22	6	7	1				1	
	Males.	17	14	1	1			1	12	2	2					1	
	Fem.	20	20						10	4	5	1					
Bay	Total.	40	32	3		4		1	21	8	6	3		2			
	Males.	11	9			2			8		1	2					
	Fem.	29	23	3		2		1	13	8	5	1		2			
Benzie	Total.	14	14							5	3	2	1				1
	Males.	6	6							2	1	2	1				
	Fem.	8	8							3	2						1
Berrien	Total.	57	40	4	10		1	2	25	15	9	4	1	2			
	Males.	15	10	1	3			1	12	1	2						
	Fem.	42	30	3	7		1	1	13	14	7	4	1	2			
Branch	Total.	30	26	2	1			1	13	11	2	1	1	1			
	Males.	7	7						4	3							
	Fem.	23	19	2	1			1	9	8	2	1	1	1			
Calhoun	Total.	83	68	5	7	2		1	44	23	9	4	1	1	1		
	Males.	19	17			1		1	10	3	4	1	1				
	Fem.	64	51	5	7	1			34	20	5	3		1	1		
Cass	Total.	31	25	1	2	2		1	9	14	2	2	3				1
	Males.	4	3					1	1	2			1				
	Fem.	27	22	1	2	2			8	12	2	2	2				1
Charlevoix	Total.	10	6		1			3	3		1	1	1		1		
	Males.	3	1					2			1						
	Fem.	7	5		1			1	3			1	1		1		
Cheboygan	Total.	14	10	2		2			4	5		1		2	1		1
	Males.	5	3	1		1			2	1				1			1
	Fem.	9	7	1		1			2	4		1		1	1		
Chippewa	Total.	13	8		3	2			6	2	1	1	3				
	Males.																
	Fem.	13	8		3	2			6	2	1	1	3				

showing place of marriage, number of children in family, and duration of marriage e.

family.					Duration of marriage before divorce.																	
11.	12.	13.	14.	Unknown.	Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	Unknown.
3	2	2	1	31	62	155	174	161	178	730	694	337	288	187	92	58	28	12	5	2	....	15
2	1	1	....	9	20	36	47	47	45	195	186	81	67	50	22	22	11	6	4	1	....	1
1	1	1	1	22	42	119	127	114	133	535	508	256	221	137	70	36	17	6	1	1	....	14
....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	..
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	..
....	....	....	....	....	....	....	....	....	1	1	2	1	1	....	....	1	....	....	....	....	....	..
....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	..
....	....	....	....	....	....	....	....	....	1	1	....	1	1	....	....	1	....	....	....	....	....	..
....	....	....	....	....	4	1	2	1	3	11	9	2	3	1	4	2	....	1	....	....	....	..
....	....	....	....	....	1	....	....	....	....	1	4	1	....	....	1	2	....	1	....	....	....	.
....	....	....	....	....	3	1	2	1	3	10	5	1	3	1	3	....	....	....	....	....	....	.
....	....	....	....	....	....	....	2	1	....	3	1	2	1	1	....	....	....	....	....	....	....	..
....	....	....	....	....	....	....	1	....	....	1	1	1	1	....	....	....	....	....	....	....	....	..
....	....	....	....	....	....	....	1	1	....	2	....	1	....	1	....	....	....	....	....	....	....	..
....	....	....	....	....	....	2	1	2	1	6	4	1	2	1	....	....	....	....	....	....	....	1
....	....	....	....	....	....	....	1	2	....	3	3	1	....	....	....	....	....	....	....	....	....	..
....	....	....	....	....	....	2	....	....	1	3	1	....	2	1	....	....	....	....	....	....	....	1
....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	..
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....	....	....	....	....	....	4	4	1	5	14	10	7	....	1	2	1	2	....	....	....	....	..
....	....	....	....	....	....	4	3	1	....	8	4	3	....	1	....	1	....	....	....	....	....	..
....	....	....	....	....	....	....	1	....	5	6	6	4	....	....	2	....	2	....	....	....	....	..
....	....	....	....	....	....	2	1	6	3	12	17	3	5	1	....	1	....	1	....	....	....	..
....	....	....	....	....	....	1	....	1	2	4	6	....	1	....	....	....	....	....	....	....	....	..
....	....	....	....	....	....	1	1	5	1	8	11	3	4	1	....	1	....	1	....	....	....	..
....	....	....	....	2	....	....	1	1	....	2	5	1	2	3	....	1	....	....	....	....	....	..
....	....	....	....	....	....	....	....	1	....	1	2	1	....	1	....	1	....	....	....	....	....	..
....	....	....	....	2	....	....	1	....	....	1	3	....	2	2	....	....	....	....	....	....	....	.
....	....	....	....	1	3	3	4	5	5	20	11	11	6	3	4	1	....	....	....	....	....	1
....	....	....	....	....	1	1	....	4	4	10	4	....	....	....	....	1	....	....	....	....	....	..
....	....	....	....	1	2	2	4	1	1	10	7	11	6	3	4	....	....	....	....	....	....	1
....	....	....	....	1	....	2	....	3	2	7	12	3	4	1	1	....	1	....	....	....	....	1
....	....	....	....	....	....	....	....	1	....	1	2	1	2	....	....	....	1	....	....	....	....	..
....	....	....	....	1	....	2	....	2	2	6	10	2	2	1	1	....	....	....	....	....	....	1
....	....	....	....	....	2	3	4	10	9	28	22	11	9	7	2	1	2	....	1	....	....	.
....	....	....	....	....	1	....	....	....	3	4	5	4	1	2	....	1	1	....	1	....	....	..
....	....	....	....	....	1	3	4	10	6	24	17	7	8	5	2	....	1	....	....	....	....	..
....	....	....	....	....	1	3	....	5	2	11	8	1	5	2	1	2	1	....	....	....	....	..
....	....	....	....	....	....	1	....	....	....	1	2	....	....	....	....	1	....	....	....	....	....	..
....	....	....	....	....	1	2	....	5	2	10	6	1	5	2	1	1	1	....	....	....	....	..
....	....	....	....	3	1	1	1	....	....	3	4	1	....	1	....	....	1	....	....	....	....	.
....	....	....	....	2	....	....	1	....	....	1	1	....	....	....	....	....	1	....	....	....	....	.
....	....	....	....	1	1	1	....	....	....	2	3	1	....	1	....	....	....	....	....	....	....	..
....	....	....	....	....	....	....	2	....	1	3	3	3	1	2	1	1	....	....	....	....	....	..
....	....	....	....	....	....	....	1	....	....	1	....	3	....	....	1	....	....	....	....	....	....	..
....	....	....	....	....	....	....	1	....	1	2	3	....	1	2	....	1	....	....	....	....	....	..
....	....	....	....	....	1	....	....	1	....	2	4	3	3	....	1	....	....	....	....	....	....	..
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
....	....	....	....	....	1	....	....	1	....	2	4	3	3	....	1	....	....	....	....	....	....	..

TABLE II.—Continued.—Divorces in Michigan, by counties and sex of com-

Counties.	Sex of complainants.	Complainants in divorces granted, 1900.	Place of marriage.						Number of chil-								
			Michigan.	Ohio, Indiana, Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.	7.	8.
Clare	Total.	9	8			1			5	3	1						
	Males.	5	5						3	2							
	Fem.	4	3			1			2	1	1						
Clinton	Total.	22	21		1				6	4	5	2	1	1			
	Males.	6	5		1				2	1	1	1					
	Fem.	16	16						4	3	4	1	1	1			
Crawford	Total.	2	2								1	1					
	Males.																
	Fem.	2	2								1	1					
Delta	Total.	11	5	1		2	1	2	3	3	2	2			1		
	Males.	2						2	1		1						
	Fem.	9	5	1		2	1		2	3	1	2			1		
Dickinson	Total.	8	5	2			1		4	2		1	1				
	Males.																
	Fem.	8	5	2			1		4	2		1	1				
Eaton	Total.	60	54	3	2			1	37	11	4	4	3			1	
	Males.	21	19		2				13	5	2		1				
	Fem.	39	35	3				1	24	6	2	4	2			1	
Emmet	Total.	20	19			1			7	5	4	2	1	1			
	Males.	3	3						2	1							
	Fem.	17	16			1			5	4	4	2	1	1			
Genesee	Total.	61	54	1	5	1			24	19	10	6	1			1	
	Males.	16	16						6	6	2	2					
	Fem.	45	38	1	5	1			18	13	8	4	1			1	
Gladwin	Total.	6	4					2	2	3							1
	Males.																
	Fem.	6	4					2	2	3							1
Gogebic	Total.	5	3	2					2	2	1						
	Males.	1		1						1							
	Fem.	4	3	1					2	1	1						
Gd. Traverse.	Total.	32	27	1	2			2	19	4	5	3	1				
	Males.	7	7						4	1	1		1				
	Fem.	25	20	1	2			2	15	3	4	3					
Gratiot	Total.	35	30	2	3				20	5	4	3		1	1	1	
	Males.	5	4		1				5								
	Fem.	30	26	2	2				15	5	4	3		1	1	1	
Hillsdale	Total.	41	29	3	1			8	18	11	5	1					
	Males.	10	7	2				1	6		2	1					
	Fem.	31	22	1	1			7	12	11	3						
Houghton	Total.	14	8	1		1	1	3	4	5	1	1		1	1		
	Males.	1						1	1								
	Fem.	13	8	1		1	1	2	3	5	1	1		1	1		
Huron	Total.	14	8		3	2		1	7	3	2	1		1			
	Males.	2	1		1				1			1					
	Fem.	12	7		2	2		1	6	3	2			1			
Ingham	Total.	27	22		3	2			14	6	2	2	1	1	1		
	Males.	9	7			2			7	1		1					
	Fem.	18	15		3				7	5	2	1	1	1	1		
Ionia	Total.	42	40				1	1	20	7	8	3		2	1		
	Males.	11	10					1	5	2	2	1					
	Fem.	31	30				1		15	5	6	2		2	1		
Iosco	Total.	4	4						1	2	1						
	Males.	2	2						1		1						
	Fem.	2	2							2							

plainant, number of children in family and duration of marriage before divorce.

dren in family.							Duration of marriage before divorce.																	
9.	10.	11.	12.	13.	14.	Unknown.	Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	Unknown.
..	....	....	....	....	....	....	....	....	1	....	1	2	4	....	3	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	3	....	2	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	1	....	1	2	1	....	1	....	....	....	....	....	....	....	....	..
..	....	1	....	....	....	2	1	....	....	....	3	4	4	5	1	4	2	2	....	....	....	....	....	..
..	....	1	....	....	....	....	....	....	....	....	1	1	2	1	1	1	....	....	....	....	....	....	....	..
..	....	....	....	....	....	2	1	....	....	....	2	3	2	4	....	3	2	2	....	....	....	....	....	..
	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	2	2	....	4	3	1	....	2	1	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	1	....	1	1	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	2	1	....	3	2	1	....	2	1	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	1	1	....	....	3	3	....	....	....	1	....	1	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	1	1	....	....	3	3	....	....	....	1	....	1	....	....	....	....	..
..	....	....	....	....	....	....	....	7	5	2	10	24	16	8	5	4	2	....	1	....	....	....	....	..
..	....	....	....	....	....	....	....	3	....	1	4	8	5	2	1	3	1	....	1	....	....	....	....	..
..	....	....	....	....	....	....	....	4	5	1	6	16	11	6	4	1	1	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	1	2	1	1	6	5	3	2	1	2	....	1	....	....	....	....	..
..	....	....	....	....	....	....	1	....	....	1	....	2	1	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	1	2	....	1	4	4	3	2	1	2	....	1	....	....	....	....	..
..	....	....	....	....	....	....	2	3	5	2	2	14	20	7	9	3	5	2	....	1	....	....	....	..
..	....	....	....	....	....	....	1	....	2	....	1	4	5	3	1	....	2	....	....	1	....	....	....	..
..	....	....	....	....	....	....	1	3	3	2	1	10	15	4	8	3	3	2	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	1	1	2	1	1	....	1	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	1	1	2	1	1	....	1	....	....	....	....	....	....	..
	....	....	....	....	....	....	....	2	1	....	....	3	2	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	1	1	....	....	2	2	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	....	2	5	1	9	14	3	1	2	2	1	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	1	....	....	1	5	....	1	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	....	1	5	1	8	9	3	....	2	2	1	....	....	....	....	....	..
..	....	....	....	....	....	....	1	4	2	3	2	12	8	3	6	4	1	....	....	....	....	1	....	..
..	....	....	....	....	....	....	....	1	1	1	....	3	....	1	....	1	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	3	1	2	2	9	8	2	6	3	1	....	....	....	....	1	....	..
..	....	....	....	....	....	6	....	3	3	1	4	11	11	5	4	2	1	....	....	....	....	....	....	7
..	....	....	....	....	....	1	....	2	....	....	....	2	2	2	1	1	1	....	....	....	....	....	....	1
..	....	....	....	....	....	5	....	1	3	1	4	9	9	3	3	1	....	....	....	....	....	....	....	6
..	....	....	....	....	1	....	1	3	1	1	....	6	4	....	2	1	....	....	1	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	1	....	1	3	1	....	....	5	4	....	2	1	....	....	1	....	....	....	....	..
..	....	....	....	....	....	....	....	....	1	....	....	1	1	5	4	2	....	....	....	....	....	....	....	1
..	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	1	....	....	1	1	3	4	2	....	....	....	....	....	....	....	1
..	....	....	....	....	....	....	....	1	2	3	....	6	9	7	5	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	2	2	....	4	3	1	1	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	1	....	1	....	2	6	6	4	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	1	....	2	3	4	3	12	11	6	3	7	2	....	....	....	1	....	....	..
..	....	....	....	....	....	1	....	....	....	1	1	2	2	1	2	2	1	....	....	....	1	....	....	..
..	....	....	....	....	....	....	....	2	3	3	2	10	9	5	1	5	1	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	1	....	1	2	1	1	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	1	....	1	2	....	....	....	....	....	....	....	....	....	....	....	..

TABLE II.—Divorces in Michigan, by counties and sex of complainant, during the year before

State and counties.	Sex of complainants.	Complainants in divorces granted, 1901.	Place of marriage.						Number of chil-								
			Michigan.	Ohio, Indiana, Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.	7.	8.
STATE....	Total.	2,448	1,961	91	160	164	26	46	1,130	620	310	154	80	52	28	15	12
	Males.	646	495	23	57	42	10	19	349	123	79	36	22	7	10	2	2
	Fem..	1,802	1,466	68	103	122	16	27	781	497	231	118	58	45	18	13	10
Alcona.....	Total.	1	1	.....	.....	....	.....	....	.....	1	....	....	....	....	....	....	....
	Males.	.....	.....	.....	.....	....	.....	....	.....	....	....	....	....	....	....	....	....
	Fem..	1	1	.....	.....	....	.....	....	.....	1	....	....	....	....	....	....	....
Alger..... ...	Total.	6	4	.....	.....	2	.....	....	3	1	1	....	....	1	....	....	....
	Males.	2	2	.....	.....	....	.....	....	2	....	....	....	....	....	....	....	....
	Fem..	4	2	.....	.....	2	.....	....	1	1	1	....	....	1	....	....	....
Allegan	Total.	33	29	2	2	....	.....	....	12	14	3	2	1	....	1	....	....
	Males.	10	8	1	1	....	.....	....	2	5	1	....	1	....	1	....	....
	Fem..	23	21	1	1	....	.....	....	10	9	2	2	....	....	....	....	....
Alpena.....	Total.	8	8	.....	.....	....	.....	....	4	2	1	....	....	....	....	....	1
	Males.	4	4	.....	.....	....	.....	....	2	1	1	....	....	....	....	....	....
	Fem..	4	4	.....	.....	....	.....	....	2	1	....	....	....	....	....	....	1
Antrim.....	Total.	15	13	.....	.....	....	2	....	7	3	2	....	1	2	....	....	....
	Males.	7	6	.....	.....	....	1	....	4	1	1	....	1	....	....	....	....
	Fem..	8	7	.....	.....	....	1	....	3	2	1	....	....	2	....	....	....
Arenac.....	Total.	1	.....	.....	.....	1	.....	....	.....	....	....	....	....	1	....	....	....
	Males.	.....	.....	.....	.....	....	.....	....	.....	....	....	....	....	....	....	....	....
	Fem..	1	.....	.....	.....	1	.....	....	.....	....	....	....	....	1	....	....	....
Baraga.....	Total.	1	1	.....	.....	....	.....	....	.....	1	....	....	....	....	....	....	....
	Males	.....	.....	.....	.....	....	.....	....	.....	....	....	....	....	....	....	....	....
	Fem..	1	1	.....	.....	....	.....	....	.....	1	....	....	....	....	....	....	....
Barry.....	Total.	37	34	1	1	....	.....	1	22	6	7	1	....	....	....	1	....
	Males.	17	14	1	1	....	.....	1	12	2	2	....	....	....	....	1	....
	Fem..	20	20	.....	.....	....	.....	....	10	4	5	1	....	....	....	....	....
Bay.....	Total.	40	32	3	.....	4	.....	1	21	8	6	3	....	2	....	....	....
	Males.	11	9	.....	.....	2	.....	....	8	....	1	2	....	....	....	....	....
	Fem..	29	23	3	.....	2	.....	1	13	8	5	1	....	2	....	....	....
Benzie.....	Total.	14	14	.....	.....	....	.....	....	.....	5	3	2	1	....	....	....	1
	Males.	6	6	.....	.....	....	.....	....	.....	2	1	2	1	....	....	....	....
	Fem..	8	8	.....	.....	....	.....	....	.....	3	2	....	....	....	....	....	1
Berrien.....	Total.	57	40	4	10	....	1	2	25	15	9	4	1	2	....	....	....
	Males.	15	10	1	3	....	.....	1	12	1	2	....	....	....	....	....	....
	Fem..	42	30	3	7	....	1	1	13	14	7	4	1	2	....	....	....
Branch.....	Total.	30	26	2	1	....	.....	1	13	11	2	1	1	1	....	....	....
	Males.	7	7	.....	.....	....	.....	....	4	3	....	....	....	....	....	....	....
	Fem..	23	19	2	1	....	.....	1	9	8	2	1	1	1	....	....	....
Calhoun.....	Total.	83	68	5	7	2	.....	1	44	23	9	4	1	1	1	....	....
	Males.	19	17	.....	.....	1	.....	1	10	3	4	1	1	....	....	....	....
	Fem..	64	51	5	7	1	.....	....	34	20	5	3	....	1	1	....	....
Cass.....	Total.	31	25	1	2	2	.....	1	9	14	2	2	3	....	....	....	1
	Males.	4	3	.....	.....	....	.....	1	1	2	....	....	1	....	....	....	....
	Fem..	27	22	1	2	2	.....	....	8	12	2	2	2	....	....	....	1
Charlevoix...	Total.	10	6	.....	1	....	.....	3	3	....	1	1	1	....	1	....	....
	Males.	3	1	.....	.....	....	.....	2	.....	....	1	....	....	....	....	....	....
	Fem..	7	5	.....	1	....	.....	1	3	....	....	1	1	....	1	....	....
Cheboygan...	Total.	14	10	2	.....	2	.....	....	4	5	....	1	....	2	1	....	1
	Males.	5	3	1	.....	1	.....	....	2	1	....	....	....	1	....	....	1
	Fem..	9	7	1	.....	1	.....	....	2	4	....	1	....	1	1	....	....
Chippewa....	Total.	13	8	.....	3	2	.....	....	6	2	1	1	3	....	....	....	....
	Males.	.....	.....	.....	.....	....	.....	....	.....	....	....	....	....	....	....	....	....
	Fem..	13	8	.....	3	2	.....	....	6	2	1	1	3	....	....	....	....

plainant, number of children in family and duration of marriage before divorce.

dren in family.							Duration of marriage before divorce.																	
9.	10.	11.	12.	13.	14.	Unknown.	Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	Unknown.
..	....	....	....	....	....	....	....	....	1	....	....	1	2	1	1	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	1	....	....	1	1	1	1	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	1	1	2	2	6	7	2	4	2	1	1	1	1	....	....	....	..
..	....	....	....	....	....	....	....	....	....	1	2	3	2	1	1	....	....	1	1	1	....	....	....	..
..	....	....	....	....	....	....	....	1	1	1	....	3	5	1	3	2	1	....	....	....	....	....	....	..
1	....	....	....	....	....	....	4	6	6	3	4	23	24	14	10	5	5	1	1	....	....	....	....	..
..	....	....	....	....	....	....	2	1	2	....	1	6	3	2	3	2	2	....	....	....	....	....	....	..
1	....	....	....	....	....	....	2	5	4	3	3	17	21	12	7	3	3	1	1	....	....	....	....	..
..	....	....	....	....	....	....	....	9	8	3	6	26	19	16	13	8	3	2	2	....	1	....	....	..
..	....	....	....	....	....	....	....	1	3	2	2	8	3	5	2	2	2	....	1	....	....	....	....	..
..	....	....	....	....	....	....	....	8	5	1	4	18	16	11	11	6	1	2	1	....	1	....	....	..
..	....	....	....	....	....	....	....	1	2	2	1	6	4	3	....	1	2	....	....	....	....	....	....	..
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..	....	....	....	....	....	....	....	1	2	2	1	6	1	3	....	1	2	....	....	....	....	....	....	..
..	1	....	....	....	....	2	8	21	13	15	14	71	65	25	17	13	8	5	....	1	1	1	....	..
..	....	....	....	....	....	1	2	3	4	3	4	16	11	6	8	3	2	3	....	....	1	1	....	..
..	1	....	....	....	....	1	6	18	9	12	10	55	54	19	9	10	6	2	....	1	....	....	....	..
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..	....	....	1	....	....	....	1	1	1	2	1	6	5	1	2	1	1	2	....	....	....	....	....	..
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..	....	....	....	....	....	....	1	3	4	5	8	21	17	8	7	5	1	1	1	....	....	....	....	..
..	....	....	....	....	....	....	....	1	....	2	2	5	2	....	....	1	....	....	1	....	....	....	....	..
..	....	....	....	....	....	....	1	2	4	3	6	16	15	8	7	4	1	1	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	3	1	....	4	4	2	3	1	....	1	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	1	1	....	2	1	2	1	1	....	....	....	....	....	....	....	..
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..	....	....	....	....	....	8	....	1	1	1	5	8	9	9	1	2	....	....	....	....	....	....	....	..
..	....	....	....	....	....	1	....	1	....	....	1	2	1	....	1	1	....	....	....	....	....	....	....	..
..	....	....	....	....	....	7	....	....	1	1	4	6	8	9	....	1	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	4	1	2	7	3	2	1	1	....	....	....	....	....	....	....	1
..	....	....	....	....	....	....	....	....	1	....	....	1	....	1	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	3	1	2	6	3	1	1	1	....	....	....	....	....	....	....	1
..	....	....	....	....	....	....	....	1	....	....	1	2	3	3	....	....	....	....	....	....	....	....	....	..
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..	....	....	....	....	....	....	....	....	....	2	1	3	5	1	1	....	....	....	....	....	....	....	....	..
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..	....	....	....	....	....	....	....	....	....	2	1	3	3	1	1	....	....	....	....	....	....	....	....	..

TABLE II.—Continued.—Divorces in Michigan, by counties and sex of com-

Counties.	Sex of complainants.	Complainants in divorces granted, 1900.	Place of marriage.						Number of chil-								
			Michigan.	Ohio, Indiana, Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.	7.	8.
Clare	Total.	9	8			1			5	3	1						
	Males.	5	5						3	2							
	Fem.	4	3			1			2	1	1						
Clinton	Total.	22	21		1				6	4	5	2	1	1			
	Males.	6	5		1				2	1	1	1					
	Fem.	16	16						4	3	4	1	1	1			
Crawford	Total.	2	2								1	1					
	Males.																
	Fem.	2	2								1	1					
Delta	Total.	11	5	1		2	1	2	3	3	2	2			1		
	Males.	2						2	1		1						
	Fem.	9	5	1		2	1		2	3	1	2			1		
Dickinson	Total.	8	5	2			1		4	2		1	1				
	Males.																
	Fem.	8	5	2			1		4	2		1	1				
Eaton	Total.	60	54	3	2			1	37	11	4	4	3			1	
	Males.	21	19		2				13	5	2		1				
	Fem.	39	35	3				1	24	6	2	4	2			1	
Emmet	Total.	20	19			1			7	5	4	2	1	1			
	Males.	3	3						2	1							
	Fem.	17	16			1			5	4	4	2	1	1			
Genesee	Total.	61	54	1	5	1			24	19	10	6	1			1	
	Males.	16	16						6	6	2	2					
	Fem.	45	38	1	5	1			18	13	8	4	1			1	
Gladwin	Total.	6	4					2	2	3							1
	Males.																
	Fem.	6	4					2	2	3							1
Gogebic	Total.	5	3	2					2	2	1						
	Males.	1		1						1							
	Fem.	4	3	1					2	1	1						
Gd. Traverse	Total.	32	27	1	2			2	19	4	5	3	1				
	Males.	7	7						4	1	1		1				
	Fem.	25	20	1	2			2	15	3	4	3					
Gratiot	Total.	35	30	2	3				20	5	4	3		1	1	1	
	Males.	5	4		1				5								
	Fem.	30	26	2	2				15	5	4	3		1	1	1	
Hillsdale	Total.	41	29	3	1			8	18	11	5	1					
	Males.	10	7	2				1	6		2	1					
	Fem.	31	22	1	1			7	12	11	3						
Houghton	Total.	14	8	1		1	1	3	4	5	1	1		1	1		
	Males.	1						1	1								
	Fem.	13	8	1		1	1	2	3	5	1	1		1	1		
Huron	Total.	14	8		3	2		1	7	3	2	1		1			
	Males.	2	1		1				1			1					
	Fem.	12	7		2	2		1	6	3	2			1			
Ingham	Total.	27	22		3	2			14	6	2	2	1	1	1		
	Males.	9	7			2			7	1		1					
	Fem.	18	15		3				7	5	2	1	1	1	1		
Ionia	Total.	42	40				1	1	20	7	8	3		2	1		
	Males.	11	10					1	5	2	2	1					
	Fem.	31	30				1		15	5	6	2		2	1		
Iosco	Total.	4	4						1	2	1						
	Males.	2	2						1		1						
	Fem.	2	2							2							

plainant, number of children in family and duration of marriage before divorce.

dren in family.							Duration of marriage before divorce.																	
9.	10.	11.	12.	13.	14.	Unknown.	Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	Unknown.
....	....	....	....	....	....	....	....	2	2	....	1	5	5	3	1	3	....	....	1	....	....	....	....	..
....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	1	....	....	....	....	....	....	....	..
....	....	....	....	....	....	....	....	2	2	....	1	5	4	2	....	2	....	....	1	....	....	....	....	..
....	....	....	....	....	....	....	....	1	....	3	....	4	....	2	1	1	....	....	....	....	....	....	....	..
....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	..
....	....	....	....	....	....	....	....	....	....	3	....	3	....	2	1	1	....	....	....	....	....	....	....	..
....	....	....	....	....	....	....	....	....	....	2	....	2	3	1	....	....	....	....	2	....	....	....	....	..
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....	....	....	....	....	....	....	....	4	2	3	....	9	7	2	2	2	....	....	....	....	....	....	....	..
....	....	....	....	....	....	....	....	1	1	....	....	2	2	....	1	....	....	....	....	....	....	....	....	..
....	....	....	....	....	....	....	....	3	1	3	....	7	5	2	1	2	....	....	....	....	....	....	....	..
....	....	....	....	....	....	....	1	1	2	1	3	8	9	5	5	5	1	2	1	1	....	....	....	..
....	....	....	....	....	....	....	1	1	....	....	....	2	1	1	....	2	....	....	....	....	....	....	....	..
....	....	....	....	....	....	....	....	....	2	1	3	6	8	4	5	3	1	2	1	1	....	....	....	..
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1	....	....	....	....	....	....	....	1	3	1	4	9	16	5	9	2	1	1	....	....	1	....	....	..
1	....	....	....	....	....	....	....	....	....	1	1	2	5	1	1	....	....	....	....	....	1	....	....	..
....	....	....	....	....	....	....	....	1	3	....	3	7	11	4	8	2	1	1	....	....	....	....	....	..
....	....	....	....	....	....	....	1	3	....	2	....	6	6	3	4	3	....	....	1	....	....	....	....	..
....	....	....	....	....	....	....	1	1	....	1	....	3	1	....	1	1	....	....	1	....	....	....	....	..
....	....	....	....	....	....	....	....	2	....	1	....	3	5	3	3	2	....	....	....	....	....	....	....	..
....	....	....	....	....	....	....	2	2	....	5	....	9	11	3	5	4	3	....	....	....	....	....	....	..
....	....	....	....	....	....	....	....	....	....	1	....	1	6	2	2	3	1	....	....	....	....	....	....	..
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1	....	....	....	....	....	1	1	....	3	3	5	12	4	2	4	2	2	1	....	....	....	....	....	..
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1	....	....	....	....	....	1	....	....	2	2	4	8	2	1	3	2	1	1	....	....	....	....	....	..
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TABLE II.—Concluded.—Divorces in Michigan, by counties and sex of com-

Counties.	Sex of complainants.	Complainants in divorces granted, 1901.	Place of marriage.						Number of chil-								
			Michigan.	Ohio, Indiana, Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.	7.	8.
Roscommon..	Total.	7	6	.....	.....	1	.....	....	3	2	....	....	....	....	....	....	....
	Males.	3	3	.....	.....	....	.....	....	2	....	....	....	....	....	....	....	....
	Fem..	4	3	.....	.....	1	.....	....	1	2	....	....	....	....	....	....	....
Saginaw.....	Total.	96	77	4	5	8	2	....	46	25	10	5	1	4	1	2	....
	Males.	27	20	2	1	3	1	....	19	2	3	....	....	....	1	....	....
	Fem..	69	57	2	4	5	1	....	27	23	7	5	1	4	....	2	....
St. Clair.....	Total.	54	38	1	4	10	.....	1	21	15	7	3	4	1	....	....	1
	Males.	12	7	.....	2	3	.....	....	6	2	2	1	1	....	....	....	....
	Fem..	42	31	1	2	7	.....	1	15	13	5	2	3	1	....	....	1
St Joseph ...	Total.	29	28	.....	1	....	.....	....	11	10	3	4	1	....	....	....	....
	Males.	4	4	.....	.....	....	.....	....	2	1	1	....	....	....	....	....	....
	Fem..	25	24	.....	1	....	.....	....	9	9	2	4	1	....	....	....	....
Sanilac.....	Total.	10	8	.....	.....	2	.....	....	7	1	1	....	1	....	....	....	....
	Males.	6	4	.....	.....	2	.....	....	5	....	....	....	1	....	....	....	....
	Fem..	4	4	.....	.....	....	.....	....	2	1	1	....	....	....	....	....	....
Schoolcraft..	Total.	6	6	.....	.....	....	.....	....	1	....	1	2	1	....	....	....	....
	Males.	2	2	.....	.....	....	.....	....	.....	....	....	....	1	....	....	....	....
	Fem..	4	4	.....	.....	....	.....	....	1	....	1	2	....	....	....	....	....
Shiawassee..	Total.	57	52	.....	3	1	.....	1	29	17	5	4	1	1	....	....	....
	Males.	15	14	.....	1	....	.....	....	5	6	2	2	....	....	....	....	....
	Fem .	42	38	.....	2	1	.....	1	24	11	3	2	1	1	....	....	....
Tuscola.....	Total.	31	26	.....	.....	4	1	...	16	6	5	4	....	....	....	....	....
	Males.	8	7	.....	.....	1	.....	....	5	3	....	....	....	....	....	....	....
	Fem..	23	19	.....	.....	3	1	....	11	3	5	4	....	....	....	....	....
Van Buren...	Total.	44	42	1	1	....	.....	....	23	9	4	4	2	1	....	1	....
	Males.	12	12	.....	.....	....	.....	....	8	1	2	....	1	....	....	....	....
	Fem..	32	30	1	1	....	.....	....	15	8	2	4	1	1	....	1	....
Washtenaw..	Total.	45	39	1	2	2	.....	1	24	5	8	5	3	....	....	....	....
	Males.	8	6	1	.....	....	.....	1	6	1	1	....	....	....	....	....	....
	Fem..	37	33	.....	2	2	.....	....	18	4	7	5	3	....	....	....	....
Wayne.....	Total.	350	307	7	40	83	8	5	173	86	48	15	13	4	3	....	3
	Males.	105	53	4	19	20	5	4	52	21	15	5	4	2	2	....	1
	Fem..	245	154	3	21	63	3	1	121	65	33	10	9	2	1	....	2
Wexford.....	Total.	26	22	1	1	1	1	....	10	9	3	2	....	1	....	....	1
	Males.	5	4	1	.....	....	.....	....	4	....	1	....	....	....	....	....	....
	Fem..	21	18	.....	1	1	1	....	6	9	2	2	....	1	....	....	1

plainant, number of children in family and duration of marriage before divorce.

dren in family.							Duration of marriage before divorce.																	
9.	10.	11.	12.	13.	14.	Unknown.	Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	Unknown.
..	....	1	....	1	....	....	....	....	2	....	2	4	1	....	....	1	....	....	1	....	....	....	....	..
..	....	1	....	....	....	....	....	....	1	....	....	1	1	....	....	1	....	....	....	....	....	....	....	..
..	....	....	....	1	....	....	....	....	1	....	2	3	....	....	....	....	....	....	1	....	....	....	....	..
.	1	....	1	....	...	....	7	7	3	4	7	28	21	14	12	12	1	4	2	2	....	....	....	..
..	1	....	1	....	....	....	4	2	2	....	2	10	6	1	3	4	....	1	1	1	....	....	....	..
..	....	....	....	....	....	....	3	5	1	4	5	18	15	13	9	8	1	3	1	1	....	....	....	..
..	1	1	....	....	....	....	2	2	4	3	3	14	15	7	8	4	3	2	1	....	....	....	....	..
..	....	....	....	....	....	....	1	....	1	1	....	3	2	2	4	....	1	....	....	....	....	....	....	..
..	1	1	....	....	....	....	1	2	3	2	3	11	13	5	4	4	2	2	1	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	3	....	3	9	4	6	2	4	1	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	1	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	3	....	3	8	3	5	1	4	1	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	3	1	....	4	1	3	....	1	....	1	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	2	1	....	3	....	1	....	1	....	1	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	1	....	....	1	1	2	....	....	....	....	....	....	....	....	....	..
..	....	....	....	1	....	....	....	....	....	....	....	....	2	1	1	....	....	1	....	1	....	....	....	..
..	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	2	1	1	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	2	5	9	2	5	23	17	3	5	4	2	2	....	....	....	....	....	1
..	....	....	....	....	....	....	....	....	4	....	1	5	5	1	....	2	....	2	....	....	....	....	....	..
..	....	....	....	....	....	....	2	5	5	2	4	18	12	2	5	2	2	....	....	....	....	....	....	1
..	....	....	....	....	....	....	....	2	2	3	2	9	10	5	4	....	2	1	....	....	....	....	....	..
..	....	....	....	....	....	....	....	1	....	2	....	3	3	....	2	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	1	2	1	2	6	7	5	2	....	2	1	....	....	....	....	....	..
..	....	....	....	....	....	....	2	3	5	2	1	13	13	5	4	4	3	1	....	1	....	....	....	..
..	....	....	....	....	....	....	1	....	....	1	....	2	5	1	1	....	2	1	....	....	....	....	....	..
.	....	....	....	....	....	....	1	3	5	1	1	11	8	4	3	4	1	....	....	1	....	....	....	..
..	....	....	....	....	....	....	....	2	6	3	3	14	9	6	4	7	1	3	....	....	....	....	....	1
..	....	....	....	....	....	....	....	....	....	2	1	3	2	....	2	....	....	1	....	....	....	....	....	..
..	....	....	....	....	....	....	....	2	6	1	2	11	7	6	2	7	1	2	....	....	....	....	....	1
2	....	....	....	....	....	3	10	24	25	18	28	105	97	51	52	25	10	5	3	1	....	....	....	1
1	....	....	....	....	....	2	2	5	11	6	9	33	30	14	12	9	3	1	2	1	....	....	....	..
1	....	....	....	....	....	1	8	19	14	12	19	72	67	37	40	16	7	4	1	....	....	....	....	1
..	....	....	....	....	....	....	....	2	1	2	3	8	10	2	4	1	....	1	....	....	....	....	....	..
..	....	....	....	....	....	....	....	1	....	....	1	2	2	1	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	1	1	2	2	6	8	1	4	1	....	1	....	....	....	....	....	..

TABLE II.—Continued.—Divorces in Michigan, by counties and sex of com-

Counties.	Sex of complainants.	Complainants in divorces granted, 1900.	Place of marriage.						Number of chil-								
			Michigan.	Ohio, Indiana, Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.	7.	8.
Mecosta	Total.	18	16	.....	.....	2	.....	....	8	4	2	2	1	1	....	....	....
	Males.	4	3	.....	.....	1	.....	....	2	....	1	....	....	1	....	....	....
	Fem..	14	13	.....	.....	1	.....	....	6	4	1	2	1	....	....	....	....
Menominee	Total.	8	2	3	2	1	.....	....	4	....	1	1	....	1	....	1	....
	Males.	1	.....	1	.....	....	.....	....	1	....	....	....	....	....	....	....	....
	Fem..	7	2	2	2	1	.....	....	3	....	1	1	....	1	....	1	....
Midland	Total.	8	7	.....	.....	.. .	1	....	3	3	1	....	....	....	1	....	....
	Males.	2	2	.....	.....	....	.....	....	1	1	....	....	....	....	....	....	....
	Fem..	6	5	.....	.....	....	1	....	2	2	1	....	....	....	1	....	....
Missaukee	Total.	10	8	1	.....	1	.....	....	4	2	2	....	1	....	....	....	1
	Males.	5	4	1	.....	....	.....	....	2	1	2	....	....	....	....	....	....
	Fem..	5	4	.....	.....	1	.....	....	2	1	....	....	1	....	....	....	1
Monroe	Total.	22	16	3	1	2	.....	....	11	5	3	2	....	1	....	....	....
	Males.	5	3	1	1	....	.....	....	5	....	....	....	....	....	....	....	....
	Fem..	17	13	2	.....	2	.....	....	6	5	3	2	....	1	....	....	....
Montcalm	Total.	37	35	1	1	....	.....	....	15	10	4	3	3	....	1	1	....
	Males	6	6	.....	.....	....	.....	....	2	2	....	2	....	....	....	....	....
	Fem..	31	29	1	1	....	.....	....	13	8	4	1	3	....	1	1	....
Montmoren'y	Total.	6	5	.....	1	....	.....	....	3	2	....	1	....	....	....	....	....
	Males.	2	2	.....	.....	....	.....	....	1	....	....	1	....	....	....	....	....
	Fem..	4	3	.....	1	....	.....	....	2	2	....	....	....	....	....	....	....
Muskegon	Total.	44	39	.....	4	1	.....	....	25	7	4	3	1	2	1	....	....
	Males.	10	9	.....	.....	1	.....	....	7	1	....	1	....	....	....	....	....
	Fem.	34	30	.... .	4	....	.....	....	18	6	4	2	1	2	1	....	....
Newaygo	Total.	23	22	1	.....	....	.....	....	16	2	3	....	....	....	1	1	....
	Males.	7	7	.....	.....	....	.....	....	6	....	1	....	....	....	....	....	....
	Fem..	16	15	1	.....	....	.....	....	10	2	2	....	....	....	1	1	....
Oakland	Total.	35	27	2	3	2	.....	1	16	8	6	2	1	1	1	....	....
	Males.	15	12	.....	3	....	.....	....	8	2	1	2	1	....	1	....	....
	Fem..	20	15	2	.....	2	.....	1	8	6	5	....	....	1	....	....	....
Oceana	Total.	27	23	2	2	....	.....	....	9	11	3	....	....	1	....	1	....
	Males.	9	8	.....	1	...	.....	....	4	3	1	....	...	1	....	....	....
	Fem..	18	15	2	1	....	.....	...	5	8	2	....	....	....	....	1	....
Ogemaw	Total.	3	3	.....	.....	....	.....	....	1	1	....	....	....	1	....	....	....
	Males.	.....	.....	.....	.....	....	.....	....	.....	....	....	....	....	....	....	....	....
	Fem..	3	3	.....	.....	....	.....	....	1	1	....	....	....	1	....	....	....
Ontonagon	Total.	4	3	.....	1	....	.....	....	1	1	1	....	1	....	....	....	....
	Males.	1	1	.....	.....	....	.....	....	.....	....	1	....	....	....	....	....	....
	Fem..	3	2	.....	1	....	.....	....	1	1	....	....	1	....	....	....	....
Osceola	Total.	17	12	1	2	2	.....	....	8	5	1	2	....	....	....	....	....
	Males.	8	6	.....	1	1	.....	....	4	2	....	1	....	....	....	....	....
	Fem..	9	6	1	1	1	.....	....	4	3	1	1	....	....	....	....	....
Oscoda	Total.	1	1	.....	.....	....	.....	....	.....	....	....	1	....	....	....	....	....
	Males.	1	1	.....	.....	....	.....	....	.....	....	....	1	....	....	....	....	....
	Fem..	.....	.....	.....	.....	....	.....	....	.....	....	....	....	....	....	....	....	....
Otsego	Total.	.....	.....	.....	.....	....	.....	....	.....	....	....	....	....	....	....	....	....
	Males.	.....	.....	.....	.....	....	.....	....	.....	....	....	....	....	....	....	....	....
	Fem..	.....	.....	.....	.....	....	.....	....	.....	....	....	....	....	....	....	....	....
Ottawa	Total.	15	14	.....	1	....	.....	....	6	7	1	....	....	....	....	1	....
	Males.	7	6	.....	1	....	.....	....	4	2	...	....	....	....	....	1	....
	Fem..	8	8	.....	.....	....	.....	....	2	5	1	....	....	....	....	....	....
Presque Isle	Total.	5	5	.....	.....	....	.....	....	2	....	....	....	1	....	2	....	....
	Males.	3	3	.....	.....	....	.....	....	1	....	....	....	1	....	1	....	....
	Fem..	2	2	.....	.....	....	.....	....	1	....	....	....	....	....	1	...	....

showing place of marriage, number of children in family and duration of marriage divorce.

dren in family.							Duration of marriage before divorce.																	
9.	10.	11.	12.	13.	14.	Unknown.	Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	Unknown.
2	5	3	2	2	1	31	62	155	174	161	178	730	694	337	288	187	92	58	28	12	5	2	....	15
1	2	2	1	1	....	9	20	36	47	47	45	195	186	81	67	50	22	22	11	6	4	1	....	1
2	3	1	1	1	1	22	42	119	127	114	133	535	508	256	221	137	70	36	17	6	1	1	....	14
..	....	....	....	....	....	3	3	5	3	4	2	17	25	5	12	3	1	1	....	....	....	....	....	..
..	....	....	....	....	....	2	3	5	3	4	2	17	21	2	9	....	....	1	....	....	....	....	....	..
..	....	....	....	....	....	1	....	....	....	....	....	....	4	3	3	3	1	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	1	2	....	3	6	2	....	2	....	....	1	....	....	....	....	..
..	....	....	....	....	....	....	....	....	1	1	....	2	4	1	....	1	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	1	....	1	2	1	....	1	....	....	1	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	..
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..	....	....	....	....	....	....	....	....	....	....	....	....	....	2	1	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	....	....	1	....	2	....	1	1	1	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	1	....	1	....	1	1	1	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	....	2	....	....	3	1	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	....	2	....	....	3	1	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	1	....	....	....	1	1	2	1	....	1	....	....	1	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	1	....	....	....	1	1	2	1	....	1	....	....	1	....	....	....	....	....	..
2	2	2	1	1	....	9	23	82	68	54	59	286	231	117	106	57	36	28	11	5	1	1	....	2
..	1	1	1	1	....	1	13	24	21	23	22	103	66	28	22	22	12	9	4	3	1	....	....	..
2	1	1	....	....	....	8	10	58	47	31	37	183	165	89	84	35	24	19	7	2	....	1	....	2
..	....	....	....	....	....	....	1	3	6	5	1	16	21	7	1	6	1	....	....	....	....	....	....	1
..	....	....	....	....	....	....	....	1	4	2	....	7	8	4	....	2	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	2	2	3	1	9	13	3	1	4	1	....	....	....	....	....	....	1
..	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	..
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..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	..
..	....	....	....	....	....	1	....	....	2	....	....	2	7	1	2	2	....	1	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	1	....	....	2	....	....	2	6	1	2	2	....	1	....	....	....	....	....	..
..	....	....	....	....	....	....	1	2	4	1	2	10	14	7	5	4	4	1	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	2	4	1	2	10	12	7	5	4	4	1	....	....	....	....	....	..
..	....	....	....	....	....	....	1	1	....	....	2	4	1	....	....	....	1	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	1	....	....	2	4	1	....	....	....	1	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	..
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..	....	....	....	....	....	....	....	1	....	....	....	1	....	1	1	....	1	....	1	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	1	....	....	....	1	....	1	1	....	1	....	1	....	....	....	....	..
..	....	....	....	....	....	3	8	17	23	13	24	85	74	27	22	22	9	3	....	1	....	....	....	1
..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	..
..	....	....	....	....	....	3	8	17	23	13	24	85	74	27	21	21	9	3	....	1	....	....	....	1

TABLE III.—Continued.—Causes of divorce in Michigan, during the year 1901.

Causes alleged in petitions for divorces granted in 1901	Sex of complainant and	Complainants in divorces granted in 1901	Place of marriage.							Number of children.								
			Michigan	Ohio, Ind., Ill., Wis.	Other states.	Canada.	Other foreign countries	Unknown.		0	1.	2.	3.	4	5	6.	7	8.
Deception	Total	1								1								
	Males	1								1								
	Fem																	
Deception and fraud	Total	2	2							2								
	Males	2	2							2								
	Fem																	
Deception and non-support	Total	1	1							1								
	Males																	
	Fem	1	1							1								
Desertion	Total	592	482	18	50	45	7	12		274	148	47	37	24	11	8		1
	Males	262	195	9	30	17	5	7		143	55	20	14	13	4	5		
	Fem	330	287	9	20	28	2	5		131	93	27	23	11	7	3		1
Desertion and drunkenness	Total	3	3							2		1						
	Males	1	1							1								
	Fem	2	2							1		1						
Desertion, drunkenness and non-support	Total	1				1				1								
	Males																	
	Fem	1				1				1								
Desertion and non-support	Total	104	85	3	7	5	3	1		42	29	13	10	2	3	1	1	1
	Males	2	1				1					1			1			
	Fem	102	84	3	7	5	2	1		42	29	12	10	2	2	1	1	1
Drunkenness	Total	33	29	1	1		1	1		9	7	7	5	1	3			
	Males	4	2	1	1					3		1						
	Fem	29	27				1	1		6	7	6	5	1	3			
Drunkenness and non-support	Total	22	20		2					7	5	4	4	1				
	Males																	
	Fem	22	20		2					7	5	4	4	1				
Fraud	Total	5	3		2					5								
	Males	3	1		2					3								
	Fem	2	2							2								
Fraud and duress	Total	2	1		1					1	1							
	Males	1			1						1							
	Fem	1	1							1								
Fraud and insanity	Total	1	1							1								
	Males	1	1							1								
	Fem																	
Illegal age	Total	3	2	1						3								
	Males																	
	Fem	3	2	1						3								
Illegal marriage	Total	1	1							1								
	Males																	
	Fem	1	1							1								
Imprisonment	Total	9	8		1					5	2	2						
	Males																	
	Fem	9	8		1					5	2	2						
Imprisonment and non-support	Total	1	1									1						
	Males	1	1									1						
	Fem																	
Incompetency	Total	1	1							1								
	Males																	
	Fem	1	1							1								
Incompetency, mental	Total	2	2							1	1							
	Males	1	1								1							
	Fem	1	1							1								

g number of children in family, and duration of marriage before divorce.

family.						Duration of marriage before divorce.															
11.	12	13.	14.	Unknown.	Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	Unknown.
								1		1												
								1		1												
						1	1			2												
						1	1			2												
								1		1												
								1		1												
1		1		7	4	7	25	33	42	111	174	99	75	44	23	13	11	6	3	1		2
1				5		4	14	15	19	52	79	43	32	21	10	11	7	3	3	1		
		1		2	4	3	11	18	23	59	95	56	43	23	13	2	4	3				2
											2	1										
											1											
											1	1										
													1									
													1									
	1		1			1	3	5	13	22	33	14	16	10	5	3	1					
													1	1								
	1		1			1	3	5	13	22	33	14	15	9	5	3	1					
				1		1	1	3	4	9	8	5	3	6	1							1
									1	1	2	1										
				1		1	1	3	3	8	6	4	3	6	1							1
				1		2	4	1		7	6	3	3	2		1						
				1		2	4	1		7	6	3	3	2		1						
					2	1				3	1	1										
					2					2	1											
						1				1		1										
					1				1	2												
									1	1												
					1					1												
						1				1												
						1				1												
					2					2							1					
					2					2							1					
																1						
																1						
						1		2		3	2	2		1	1							
						1		2		3	2	2		1	1							
													1									
													1									
						1				1												
						1				1												
														1					1			
														1					1			

TABLE III.—Causes of divorce in Michigan, by sex of complainant, during the year 1901, before

Causes alleged in petitions for divorces granted in 1901.	Sex of complainant.	Complainants in divorces granted, 1901.	Place of marriage.						Number of chil-								
			Michigan.	Ohio, Indiana, Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.	7.	8.
ALL CAUSES	Total.	2,448	1,961	91	160	164	26	46	1,130	620	310	154	80	52	28	15	12
	Males.	646	495	23	57	42	10	19	349	123	79	36	22	7	10	2	2
	Fem.	1,802	1,466	68	103	122	16	27	781	497	231	118	58	45	18	13	10
Adultery	Total.	64	53	2	3	5	.....	1	31	12	10	2	4	1	..	..	1
	Males	50	43	1	2	3	.....	1	27	8	8	2	2	..	..	..	1
	Fem..	14	10	1	1	2	.....	..	4	4	2	....	2	1	..	..	..
Adultery and cruelty	Total.	14	11	.....	1	2	.....	..	8	3	1	1	..	..	1	..	..
	Males.	8	6	.....	....	2	.....	..	5	2	....	1	..	..	..	..	..
	Fem..	6	5	.....	1	....	.....	..	3	1	1	....	..	..	1	..	..
Adultery, cruelty and desertion	Total.	2	2	.....	....	....	.....	..	1	....	....	1	..	..	..	..	..
	Males.	2	2	.....	....	....	.....	..	1	....	....	1	..	..	..	..	..
	Fem..	.....	.....	.....	....	....	.....	..	.....	....	....	....	..	..	..	..	..
Adultery, cruelty and non-support	Total.	3	1	.....	2	....	.....	..	1	....	1	1	..	..	..	..	..
	Males.	.....	.....	.....	....	....	.....	..	.....	....	....	....	..	..	..	..	..
	Fem..	3	1	.....	2	....	.....	..	1	....	1	1	..	..	..	..	..
Adultery and desertion	Total.	5	3	1	....	1	.....	..	2	2	....	....	1	..	..	..	..
	Males.	4	3	1	....	....	.....	..	1	2	....	....	1	..	..	..	..
	Fem..	1	.....	.....	....	1	.....	..	1	....	....	....	..	..	..	..	..
Annulment of marriage	Total.	4	4	.....	....	....	.....	..	3	....	1	....	..	..	..	..	..
	Males.	4	4	.....	....	....	.....	..	3	....	1	....	..	..	..	..	..
	Fem..	.....	.....	.....	....	....	.....	..	.....	....	....	....	..	..	..	..	..
Bigamy	Total.	5	5	.....	....	....	.....	..	4	....	....	....	..	..	..	..	..
	Males	.....	.....	.....	....	....	.....	..	.....	....	....	....	..	..	..	..	..
	Fem..	5	5	.....	....	....	.....	..	4	....	....	....	..	..	..	..	..
Cruelty	Total.	881	712	38	50	54	9	18	398	208	121	56	29	26	13	7	6
	Males.	270	208	11	19	18	4	10	140	50	44	16	5	2	5	2	1
	Fem..	611	504	27	31	36	5	8	258	158	77	40	24	24	8	5	5
Cruelty and desertion	Total.	53	42	2	2	5	1	1	28	12	8	2	1	..	1	..	1
	Males.	21	18	1	....	2	.....	..	14	4	1	1	1	..	..	..	..
	Fem..	32	24	1	2	3	1	1	14	8	7	1	..	..	1	..	1
Cruelty, desertion and drunkenness	Total.	1	.....	1	....	....	.....	..	.....	....	....	....	..	..	..	1	..
	Males.	.....	.....	.....	....	....	.....	..	.....	....	....	....	..	..	..	..	..
	Fem..	1	.....	1	....	....	.....	..	.....	....	.. .	....	..	..	..	1	..
Cruelty, desertion and neglect	Total.	1	.....	1	....	....	.....	..	.....	....	....	1	..	..	..	..	..
	Males.	.....	.....	.....	....	....	.....	..	.....	....	....	....	..	..	..	..	..
	Fem..	1	.....	1	....	....	.....	..	.....	....	....	1	..	..	..	..	..
Cruelty, desertion and non-support	Total.	15	12	.....	2	1	.....	..	7	2	2	1	..	1	..	..	1
	Males.	1	1	.....	....	....	.....	..	1	....	....	....	..	..	..	..	..
	Fem..	14	11	.....	2	1	.....	..	6	2	2	1	..	1	..	..	1
Cruelty and drunkenness	Total.	45	39	2	3	....	.....	1	19	12	6	6	1	1	..	..	..
	Males.	2	1	.....	1	....	.....	..	1	....	....	1	..	..	..	..	..
	Fem..	43	38	2	2	....	.....	1	18	12	6	5	1	1	..	..	..
Cruelty, drunkenness and non-support	Total.	6	6	.....	....	....	.....	..	4	1	....	1	..	..	..	..	..
	Males.	.....	.....	.....	....	....	.....	..	.....	....	....	....	..	..	..	..	..
	Fem..	6	6	.....	....	....	.....	..	4	1	....	1	..	..	..	..	..
Cruelty and fraud	Total.	1	1	.....	....	....	.....	..	1	....	....	....	..	..	..	..	..
	Males.	1	1	.....	....	....	.....	..	1	....	....	....	..	..	..	..	..
	Fem..	.....	.....	.....	....	....	.....	..	.....	....	....	....	..	..	..	..	..
Cruelty and neglect	Total.	5	4	.....	....	1	.....	..	3	2	....	....	..	..	..	..	..
	Males.	.....	.....	.....	....	....	.....	..	.....	....	....	....	..	..	..	..	..
	Fem..	5	4	.....	....	1	.....	..	3	2	....	....	..	..	..	..	..
Cruelty and non-support	Total.	244	197	8	11	22	3	3	106	69	39	12	8	3	1	2	1
	Males.	2	1	.....	1	....	.....	..	.....	....	2	....	..	..	..	..	..
	Fem..	242	196	8	10	22	3	3	106	69	37	12	8	3	1	2	1

the year 1901, showing place of marriage, number of children in family and duration before divorce.

dren in family.							Duration of marriage before divorce.																	
9.	10.	11.	12.	13.	14.	Unknown.	Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	Unknown.
..	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	....	....	....	....	1	2	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	....	....	....	....	1	2	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	1	1	....	2	3	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	1	1	....	2	3	....	....	....	....	....	....	....	....	....	....	..
..	1	....	....	....	....	....	10	28	30	32	27	127	81	40	37	25	9	4	2	....	....	....	....	3
..	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	..
.	1	....	....	....	....	....	10	28	29	32	27	126	81	40	37	25	9	4	2	....	....	....	....	3
..	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	..
..	....	....	....	....	....	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5
..	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
..	....	....	....	....	....	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4

TABLE III.—Continued.—Causes of divorce in Michigan, during the y

Causes alleged in petitions for divorces granted in 1901.	Sex of complainant.	Complainants in divorces granted, 1901.	Place of marriage.						Num			
			Michigan.	Ohio, Indiana, Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.
Deception	Total.	1	1	....	....	....	....	..	1	....	....	....
	Males.	1	1	....	....	....	....	..	1	....	....	....
	Fem.	....	....	....	....	....	....	..	....	....	....	....
Deception and fraud	Total.	2	2	....	....	....	....	..	2	....	....	....
	Males.	2	2	....	....	....	....	..	2	....	....	....
	Fem.	....	....	....	....	....	....	..	....	....	....	....
Deception and non-support	Total.	1	1	....	....	....	....	..	1	....	....	....
	Males.	....	....	....	....	....	....	..	....	....	....	....
	Fem.	1	1	....	....	....	....	..	1	....	....	....
Desertion	Total.	562	432	16	50	45	7	12	274	148	47	37
	Males	262	195	8	30	17	5	7	143	55	20	14
	Fem.	300	237	8	20	28	2	5	131	93	27	23
Desertion and drunkenness	Total.	3	3	....	....	....	....	..	2	....	1	....
	Males.	1	1	....	....	....	....	..	1	....	....	....
	Fem.	2	2	....	....	....	....	..	1	....	1	....
Desertion, drunkenness and non-support	Total.	1	....	....	....	1	....	..	1	....	....	....
	Males.	....	....	....	....	....	....	..	....	....	....	....
	Fem.	1	....	....	....	1	....	..	1	....	....	....
Desertion and non-support	Total.	104	85	3	7	5	3	1	42	29	13	10
	Males.	2	1	....	....	....	1	..	....	....	1	....
	Fem.	102	84	3	7	5	2	1	42	29	12	10
Drunkenness	Total.	33	29	1	1	....	1	1	9	7	7	5
	Males.	4	2	1	1	....	....	..	3	....	1	....
	Fem.	29	27	....	....	....	1	1	6	7	6	5
Drunkenness and non-support	Total.	22	20	....	2	....	....	..	7	5	4	4
	Males.	....	....	....	....	....	....	..	....	....	....	....
	Fem.	22	20	....	2	....	....	..	7	5	4	4
Fraud	Total.	5	3	....	2	....	....	..	5	....	....	....
	Males.	3	1	....	2	....	....	..	3	....	....	....
	Fem.	2	2	....	....	....	....	..	2	....	....	....
Fraud and duress	Total.	2	1	....	1	....	....	..	1	1	....	....
	Males.	1	....	....	1	....	....	..	....	1	....	....
	Fem.	1	1	....	....	....	....	..	1	....	....	....
Fraud and insanity	Total.	1	1	....	....	....	....	..	1	....	....	....
	Males.	1	1	....	....	....	....	..	1	....	....	....
	Fem.	....	....	....	....	....	....	..	....	....	....	....
Illegal age	Total.	3	2	1	....	....	....	..	3	....	....	....
	Males.	....	....	....	....	....	....	..	....	....	....	....
	Fem.	3	2	1	....	....	....	..	3	....	....	....
Illegal marriage	Total.	1	1	....	....	....	....	..	1	....	....	....
	Males.	....	....	....	....	....	....	..	....	....	....	....
	Fem.	1	1	....	....	....	....	..	1	....	....	....
Imprisonment	Total.	9	8	....	1	....	....	..	5	2	2	....
	Males	....	....	....	....	....	....	..	....	....	....	....
	Fem.	9	8	....	1	....	....	..	5	2	2	....
Imprisonment and non-support	Total.	1	1	....	....	....	....	..	....	....	1	....
	Males.	1	1	....	....	....	....	..	....	....	1	....
	Fem.	....	....	....	....	....	....	..	....	....	....	....
Incompetency	Total.	1	1	....	....	....	....	..	1	....	....	....
	Males.	....	....	....	....	....	....	..	....	....	....	....
	Fem.	1	1	....	....	....	....	..	1	....	....	....
Incompetency, mental	Total.	2	2	....	....	....	....	..	1	1	....	....
	Males	1	1	....	....	....	....	..	....	1	....	....
	Fem.	1	1	....	....	....	....	..	1	....	....	....

ber of children in family, and duration of marriage before divorce.

			Duration of marriage before divorce.																		
13.	14.	Unknown.	Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	Unknown.
						1		1												
						1		1												
				1	1			2												
				1	1			2												
						1		1												
						1		1												
1		7	4	7	25	33	42	111	174	99	75	44	23	13	11	6	3	1		2
		5		4	14	15	19	52	79	43	32	21	10	11	7	3	3	1		
1		2	4	3	11	18	23	59	95	56	43	23	13	2	4	3				2
									2	1										
									1											
									1	1										
											1									
											1									
	1			1	3	5	13	22	33	14	16	10	5	3	1					
											1	1								
	1			1	3	5	13	22	33	14	15	9	5	3	1					
		1		1	1	3	4	9	6	5	3	6	1							1
							1	1	2	1										
		1		1	1	3	3	8	6	4	3	6	1							1
		1		2	4	1		7	6	3	3	2		1						
		1		2	4	1		7	6	3	3	2		1						
			2	1				3	1	1										
			2					2	1											
				1				1		1										
			1				1	2												
							1	1												
			1					1												
				1				1												
				1				1												
			2					2							1					
			2					2							1					
						2		3	2	2		1	1							
				1		2		3	2	2		1	1							
											1									
											1									
				1				1												
				1				1												

PRIMARY TABLES RELATING TO BIRTHS IN MICHIGAN ACCORDING TO THE ENUMERATION BY SUPERVISORS AND ASSESSORS FOR THE YEAR 1901.

TABLE I.—Births in Michigan, by months, counties and sex, as enumerated by supervisors and assessors for the year 1901. (Stillbirths included.)

TABLE II.—Births in Michigan by nativity of parents, counties and sex, as enumerated by supervisors and assessors for the year 1901. (Stillbirths included.)

TABLE III.—Stillbirths, twins and illegitimate births in Michigan, by counties, as enumerated by supervisors and assessors for the year 1901. Also number of stillbirths registered as deaths and returned by registrars for same year.

TABLE IV.—Stillbirths, twins and illegitimate births in Michigan, by months and sex, as enumerated by supervisors and assessors for the year 1901.

TABLE V.—Stillbirths, twins and illegitimate births in Michigan, by nativity of parents, as enumerated by supervisors and assessors for the year 1901. Also number of stillbirths registered as deaths and returned by registrars for same year.

NOTE.—*Secondary tables*, containing birth rates and comparisons with previous years, may be found on preceding pages of this Report, together with the descriptive text. It may be noted that no comparisons with other States or countries are given for the reason that the returns of births, obtained by means of enumeration after the close of the year by supervisors and assessors, are grossly inaccurate. Perhaps one-third of all the births that actually occur in the State escape enumeration. The returns are valuable for certain internal comparisions, as pointed out in the text on this subject, but they should be used with great caution for all purposes, and especially for the comparative study of birth rates. The tables relating to births are placed last because of their unreliable character and also because the tardiness of the returns under the old law (last amended in 1869) causes them to be received at the Department of State long after the deaths, marriages and divorces have been compiled.

TABLE I.—Births in Michigan, by months, counties and sex, as enumerated by supervisors and assessors for the year 1901. (Stillbirths included.)

State and counties.	Sex.	Year, 1901.	Months, 1901.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
STATE....	Total.	43,221	2,974	3,087	3,782	3,682	3,594	3,492	3,745	3,926	3,953	3,633	3,438	3,881	34
	Males.	22,279	1,533	1,630	1,968	1,897	1,819	1,841	1,909	1,955	2,040	1,887	1,789	1,995	16
	Fem..	20,838	1,434	1,449	1,804	1,777	1,771	1,647	1,830	1,961	1,906	1,736	1,638	1,868	17
	Unk...	104	7	8	10	8	4	4	6	10	7	10	11	18	1
Alcona....	Total.	81	3	2	4	6	10	7	5	10	7	6	4	17	..
	Males.	40	2	1	3	3	4	4	3	6	3	3	3	5	
	Fem..	41	1	1	1	3	6	3	2	4	4	3	1	12	..
Alger.....	Total.	101	4	8	10	10	9	3	12	14	8	6	8	9	..
	Males	55	3	5	6	3	6	1	7	7	5	1	6	5	..
	Fem..	45	1	3	3	7	3	2	5	7	3	5	2	4	..
	Unk...	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	..
Allegan...	Total.	574	42	41	51	43	54	50	48	57	58	52	35	42	1
	Males.	278	25	16	25	19	24	25	21	25	40	24	15	19	..
	Fem..	294	17	25	26	24	30	25	27	30	18	28	20	23	1
	Unk...	2	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	..
Alpena....	Total.	472	34	43	57	27	43	37	46	40	35	36	32	42	..
	Males.	230	16	20	34	14	23	12	25	19	15	16	11	25	..
	Fem..	240	18	23	23	13	20	25	21	21	20	19	21	16	..
	Unk...	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	..
Antrim....	Total.	219	15	14	13	20	13	24	23	34	22	20	11	9	1
	Males.	112	6	5	8	11	7	11	12	18	12	15	5	2	..
	Fem..	107	9	9	5	9	6	13	11	16	10	5	6	7	1
Arenac....	Total.	200	15	14	20	24	12	23	15	11	21	18	10	16	1
	Males.	90	7	6	9	12	7	8	12	3	8	7	4	7	..
	Fem..	109	7	8	11	12	5	15	3	8	13	11	6	9	1
	Unk...	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..
Baraga....	Total.	104	8	7	5	7	7	7	8	8	10	10	12	15	..
	Males.	58	7	4	2	5	3	5	3	4	4	7	6	8	..
	Fem..	46	1	3	3	2	4	2	5	4	6	3	6	7	..
Barry.....	Total.	319	14	24	20	32	38	28	32	23	29	29	24	25	1
	Males.	156	8	11	12	14	19	10	17	9	16	11	12	16	.
	Fem..	163	6	13	8	18	19	18	15	14	13	18	11	9	1
Bay.....	Total.	1,362	97	85	129	135	119	96	97	139	135	116	[illegible]	119	
	Males	720	48	48	70	79	62	58	45	79	64	[illegible]	[illegible]	[illegible]	
	Fem.	642	49	37	59	56	57	38	52	60	71	[illegible]	[illegible]	[illegible]	
Benzie.....	Total.	219	7	11	23	14	16	19	20	26	28	[illegible]	[illegible]	[illegible]	[illegible]
	Males.	120	6	9	10	8	7	10	12	16	14	[illegible]	[illegible]	[illegible]	[illegible]
	Fem..	98	1	2	12	6	9	9	8	10	14	[illegible]	7	[illegible]	
	Unk...	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Berrien....	Total.	572	39	27	49	46	43	56	48	53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	Males.	303	20	13	25	24	25	28	25	26	[illegible]	[illegible]	[illegible]	[illegible]	
	Fem..	269	19	14	24	22	18	28	23	27	[illegible]	[illegible]	[illegible]	[illegible]	
Branch....	Total.	337	17	23	30	26	28	30	26	32	[illegible]	[illegible]	[illegible]	[illegible]	
	Males.	158	8	11	12	12	9	19	14	14	[illegible]	[illegible]	[illegible]	[illegible]	
	Fem..	179	9	12	18	14	19	11	12	18	[illegible]	[illegible]	[illegible]	[illegible]	
Calhoun...	Total.	623	40	51	58	59	42	48	53	57	[illegible]	[illegible]	[illegible]	[illegible]	
	Males	333	17	33	29	33	18	25	31	31	[illegible]	[illegible]	[illegible]	[illegible]	
	Fem..	287	23	18	29	25	24	23	21	26	[illegible]	[illegible]	[illegible]	[illegible]	
	Unk...	3	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	
Cass.....	Total.	235	12	15	20	18	36	25	20	17	[illegible]	[illegible]	[illegible]	[illegible]	
	Males.	121	7	8	10	6	17	18	11	7	[illegible]	[illegible]	[illegible]	[illegible]	
	Fem..	114	5	7	10	12	19	7	9	10	[illegible]	[illegible]	[illegible]	[illegible]	
Charlevoix	Total.	247	13	26	19	24	19	25	22	21	[illegible]	[illegible]	[illegible]	[illegible]	
	Males.	116	5	12	8	13	9	12	9	10	[illegible]	[illegible]	[illegible]	[illegible]	
	Fem..	131	8	14	11	11	10	13	13	11	[illegible]	[illegible]	[illegible]	[illegible]	
Cheboygan	Total.	291	16	25	23	34	25	23	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	Males.	151	10	12	11	18	15	13	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	Fem..	138	6	12	12	16	10	10	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	Unk...	2	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	

TABLE I.—Continued.—Births in Michigan, by months, counties and sex, 1901.

Counties.	Sex.	Year, 1901.	Months, 1901.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Chippewa	Total.	399	26	32	34	34	32	32	30	29	31	38	38	42	1
	Males.	216	14	17	23	22	13	21	17	16	14	19	20	20	..
	Fem.	183	12	15	11	12	19	11	13	13	17	19	18	22	1
Clare	Total.	160	17	10	8	18	16	12	15	16	7	12	13	15	1
	Males.	83	10	5	5	8	9	8	9	7	3	6	6	6	1
	Fem.	77	7	5	3	10	7	4	6	9	4	6	7	9	..
Clinton	Total.	371	22	19	29	41	29	23	37	40	36	33	33	29	..
	Males.	190	9	10	15	21	14	12	21	21	14	22	19	12	..
	Fem.	181	13	9	14	20	15	11	16	19	22	11	14	17	..
Crawford	Total.	36	.....	2	4	1	3	5	4	2	7	4	1	3	..
	Males	19	.....	1	2	.....	.....	3	3	1	5	3	1	.....	..
	Fem.	15	.....	1	2	1	3	2	1	1	2	1	.....	1	..
	Unk.	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	..
Delta	Total.	656	44	57	54	61	49	57	55	41	66	63	50	57	2
	Males.	345	21	33	26	34	23	38	32	20	32	27	29	28	2
	Fem.	306	23	24	28	26	26	19	22	21	34	34	21	28	..
	Unk.	5	.....	.....	.....	1	.....	.....	1	.....	.....	2	.....	1	..
Dickinson	Total.	618	32	43	61	58	48	64	59	51	53	50	39	59	1
	Males.	320	13	20	28	36	26	31	32	29	29	26	21	29	..
	Fem.	298	19	23	33	22	22	33	27	22	24	24	18	30	1
Eaton	Total.	385	21	31	35	33	32	34	39	48	33	24	29	26	..
	Males.	207	12	14	21	18	14	25	29	21	18	16	13	15	..
	Fem.	178	9	17	14	15	18	9	19	27	15	8	16	11	..
Emmet	Total.	271	21	20	18	29	15	19	31	27	20	29	25	17	..
	Males.	134	15	11	11	14	9	11	13	8	9	7	14	12	..
	Fem.	137	6	9	7	15	6	8	18	19	11	22	11	5	..
Genesee	Total.	471	33	34	43	40	38	44	47	43	42	32	28	46	1
	Males	249	18	20	21	23	19	21	25	24	22	21	14	18	..
	Fem.	220	15	14	19	17	19	22	22	19	20	11	14	28	..
	Unk.	2	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Gladwin	Total.	166	13	15	11	15	22	12	18	6	14	10	15	15	..
	Males	95	11	7	7	10	9	7	12	2	7	6	6	11	..
	Fem.	71	2	8	4	5	13	5	6	4	7	4	9	4	..
Gogebic	Total.	558	49	42	39	50	64	47	44	38	42	35	49	59	..
	Males.	291	29	22	24	20	31	26	21	23	24	18	25	28	..
	Fem.	267	20	20	15	30	33	21	23	15	18	17	24	31	..
Grand Traverse	Total.	285	17	20	19	26	27	25	35	23	39	20	21	13	..
	Males.	133	9	9	6	11	9	13	16	12	18	11	13	6	..
	Fem.	152	8	11	13	15	18	12	19	11	21	9	8	7	..
Gratiot	Total.	379	27	21	35	30	31	29	42	34	36	37	27	30	..
	Males.	199	14	11	19	17	20	13	21	19	18	16	12	19	..
	Fem.	180	13	10	16	13	11	16	21	15	18	21	15	11	..
Hillsdale	Total.	312	29	17	27	33	23	23	18	19	40	20	32	31	..
	Males.	157	17	7	14	22	5	10	9	7	27	12	15	12	..
	Fem.	154	12	10	13	11	17	13	9	12	13	8	17	19	..
	Unk.	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	..
Houghton	Total.	2,682	210	221	257	219	220	212	221	210	251	224	203	231	3
	Males.	1,429	114	108	136	127	111	117	111	104	134	129	112	125	1
	Fem.	1,253	96	113	121	92	109	95	110	106	117	95	91	106	2
Huron	Total	818	44	63	85	85	65	66	69	60	79	75	66	60	1
	Males	440	22	27	51	45	30	38	30	36	45	50	35	31	..
	Fem.	377	22	36	34	40	35	28	39	24	33	25	31	29	1
	Unk.	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	..
Ingham	Total.	431	24	40	22	35	35	30	33	56	34	38	38	43	3
	Males.	221	10	23	12	16	13	19	20	28	14	19	21	24	2
	Fem.	207	14	17	10	19	22	11	13	27	20	19	16	18	1
	Unk.	3	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	1	..

TABLE I.-Continued.—Births in Michigan, by months, counties and sex, 1901.

Counties.	Sex.	Year 1901.	Months, 1901.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Ionia.....	Total.	408	29	29	30	27	30	33	46	41	33	35	38	37	..
	Males.	209	18	16	17	11	19	15	21	12	20	20	22	18	..
	Fem..	199	11	13	13	16	11	18	25	29	13	15	16	19	..
Iosco.....	Total.	224	20	16	17	25	19	21	18	24	23	19	9	13	..
	Males.	114	10	8	9	14	9	11	9	7	13	9	6	9	..
	Fem..	110	10	8	8	11	10	10	9	17	10	10	3	4	..
Iron.....	Total.	215	20	14	17	14	14	17	22	21	18	20	18	20	..
	Males.	117	18	7	8	6	4	8	11	11	8	11	10	15	..
	Fem..	97	2	7	9	8	10	9	10	10	10	9	8	5	..
	Unk...	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	..
Isabella....	Total.	455	22	36	40	33	38	39	38	50	44	39	37	39	..
	Males.	225	10	18	18	17	21	22	16	31	22	17	16	17	..
	Fem..	228	12	18	22	16	17	17	22	19	22	22	21	20	..
	Unk...	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	..
Jackson....	Total.	696	43	63	58	65	46	69	48	70	56	65	52	61	..
	Males.	364	23	34	29	36	26	30	27	35	23	32	32	37	..
	Fem..	332	20	29	29	29	20	39	21	35	33	33	20	24	..
Kalamazoo	Total.	557	46	61	62	50	46	32	31	41	41	54	41	51	1
	Males.	277	15	27	39	20	22	19	17	21	15	31	23	27	1
	Fem..	269	28	33	22	30	23	13	14	19	26	22	17	22	..
	Unk...	11	3	1	1	.....	1	.....	.....	1	.....	1	1	2	..
Kalkaska..	Total.	116	8	4	10	9	11	11	18	13	10	9	7	6	..
	Males.	66	5	1	2	5	8	6	11	9	8	4	4	3	..
	Fem..	50	3	3	8	4	3	5	7	4	2	5	3	3	..
Kent.....	Total.	1,924	146	134	173	154	151	153	173	153	175	173	164	175	..
	Males.	990	73	66	78	82	80	83	99	79	91	89	83	87	..
	Fem..	932	73	68	95	72	71	69	74	73	84	84	81	88	..
	Unk...	2	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	..
Keweenaw	Total.	107	9	10	10	13	8	5	8	8	11	9	11	5	..
	Males.	54	5	6	4	7	4	3	5	6	4	2	6	2	..
	Fem..	53	4	4	6	6	4	2	3	2	7	7	5	3	..
Lake.....	Total.	100	3	10	5	14	9	9	8	7	16	3	4	12	..
	Males.	46	2	4	2	7	7	5	3	2	7	1	.....	6	..
	Fem..	54	1	6	3	7	2	4	5	5	9	2	4	6	..
Lapeer.....	Total.	342	18	19	33	30	32	30	28	27	30	26	39	30	..
	Males.	185	12	15	17	18	18	19	14	9	17	14	16	16	..
	Fem..	157	6	4	16	12	14	11	14	18	13	12	23	14	..
Leelanau...	Total.	159	13	15	13	13	17	14	22	9	12	7	15	9	..
	Males	66	4	5	5	6	9	6	9	6	1	3	8	4	..
	Fem..	93	9	10	8	7	8	8	13	3	11	4	7	5	..
Lenawee..	Total.	565	33	35	52	43	40	52	54	58	67	34	38	59	..
	Males.	293	17	15	29	25	21	33	27	30	34	15	16	31	..
	Fem..	271	16	20	23	18	19	19	27	27	33	19	22	28	..
	Unk...	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	..
Livingston.	Total.	237	15	12	14	25	18	17	18	32	19	19	35	13	..
	Males.	125	6	7	10	11	9	10	10	16	10	10	18	8	..
	Fem..	111	9	5	3	14	9	7	8	16	9	9	17	5	..
	Unk...	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	..
Luce.....	Total.	74	2	3	12	8	6	8	2	7	5	6	6	6	3
	Males.	39	1	3	6	2	4	3	1	4	4	5	2	3	1
	Fem..	35	1	.....	6	6	2	5	1	3	1	1	4	3	2
Mackinac..	Total.	121	14	9	13	10	11	10	7	15	11	9	7	4	1
	Males.	65	8	4	6	4	5	6	6	10	5	5	6	.....	..
	Fem..	56	6	5	7	6	6	4	1	5	6	4	1	4	1
Macomb....	Total.	468	29	25	44	44	41	41	46	36	35	38	39	50	..
	Males.	223	17	10	17	17	22	19	25	17	22	19	21	17	..
	Fem..	245	12	15	27	27	19	22	21	19	13	19	18	33	..

TABLE I.—Continued.—Births in Michigan, by months, counties and sex, 1901.

Counties.	Sex.	Year 1901.	Months, 1901.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Manistee...	Total.	470	35	27	34	45	47	31	55	44	47	39	35	31	..
	Males.	237	21	11	18	22	21	19	22	17	28	21	20	17	..
	Fem..	233	14	16	16	23	26	12	33	27	19	18	15	14	..
Marquette.	Total.	1,429	121	100	134	110	114	117	129	118	116	112	111	147	..
	Males.	728	56	52	66	62	58	51	64	61	66	58	61	73	..
	Fem..	700	65	48	67	48	56	66	65	57	50	54	50	74	..
	Unk...	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	..
Mason.....	Total.	376	20	30	43	31	37	21	30	34	36	30	25	39	..
	Males.	176	9	12	18	10	18	13	12	14	16	17	13	24	..
	Fem..	198	11	18	25	21	19	8	18	19	19	13	12	15	..
	Unk...	2	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	..
Mecosta....	Total.	332	26	15	38	24	32	34	29	29	33	37	19	16	..
	Males.	161	9	6	20	12	17	17	11	12	19	16	13	9	..
	Fem..	169	17	9	18	12	15	17	17	17	14	21	5	7	..
	Unk...	2	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	..
Menominee	Total.	585	45	39	52	63	54	40	52	49	62	46	30	53	..
	Males.	300	22	25	27	31	23	19	26	17	40	29	11	30	..
	Fem.	285	23	14	25	32	31	21	26	32	22	17	19	23	..
Midland....	Total.	252	10	13	23	23	26	26	23	28	18	25	15	21	1
	Males.	128	2	10	17	10	12	14	11	16	5	14	6	10	1
	Fem..	124	8	3	6	13	14	12	12	12	13	11	9	11	..
Missaukee..	Total.	220	15	12	25	16	15	15	18	19	20	19	23	22	1
	Males.	122	11	4	18	9	9	8	7	10	9	12	12	12	1
	Fem..	98	4	8	7	7	6	7	11	9	11	7	11	10	..
Monroe.....	Total.	543	43	39	28	39	41	31	53	51	46	60	45	67	..
	Males.	281	20	25	16	19	24	17	27	29	25	32	19	28	..
	Fem..	262	23	14	12	20	17	14	26	22	21	28	26	39	..
Montcalm..	Total.	442	18	29	35	37	32	43	42	47	36	43	29	51	..
	Males.	216	7	14	12	17	15	23	19	22	21	19	19	28	..
	Fem..	224	11	15	23	19	17	20	23	25	15	24	10	22	..
	Unk...	2	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	..
Mont-morency.	Total.	32	1	1	4	2	2	5	5	3	1	3	2	3	..
	Males.	13	1	.....	1	.....	2	3	3	.....	1	.....	2	.....	..
	Fem..	19	.....	1	3	2	.....	2	2	3	.....	3	.....	3	..
Muskegon..	Total.	691	46	47	60	71	66	36	54	61	76	58	54	62	..
	Males.	344	22	22	35	37	36	21	21	27	38	27	24	34	..
	Fem..	347	24	25	25	34	30	15	33	34	38	31	30	28	..
Newaygo..	Total.	225	4	13	15	22	17	18	28	27	30	18	11	22	..
	Males.	116	4	9	10	10	7	12	14	12	14	9	3	12	..
	Fem..	109	.....	4	5	12	10	6	14	15	16	9	8	10	.
Oakland....	Total.	540	45	33	43	40	44	50	44	51	37	61	43	49	..
	Males.	283	24	15	22	22	19	28	27	23	22	32	23	26	..
	Fem..	257	21	18	21	18	25	22	17	28	15	29	20	23	..
Oceana....	Total.	276	10	16	37	21	30	21	23	32	20	19	21	26	..
	Males.	143	7	8	27	10	17	10	11	12	13	11	5	12	..
	Fem..	133	3	8	10	11	13	11	12	20	7	8	16	14	..
Ogemaw...	Total.	113	8	5	15	8	10	6	6	16	11	5	12	11	..
	Males.	61	4	2	11	2	6	2	4	9	5	2	7	7	..
	Fem..	52	4	3	4	6	4	4	2	7	6	3	5	4	..
Ontonagon.	Total.	173	13	16	27	20	16	8	12	7	18	9	9	18	..
	Males.	96	9	10	13	13	12	3	7	3	11	5	3	7	..
	Fem..	71	3	4	14	7	4	5	4	3	6	4	6	11	..
	Unk...	6	1	2	.....	.....	.....	.....	1	1	1	.....	.....	.....	..
Osceola....	Total.	334	14	17	20	25	30	37	39	34	31	32	18	36	1
	Males.	165	9	9	10	12	13	21	16	15	17	16	9	17	1
	Fem..	169	5	8	10	13	17	16	23	19	14	16	9	19	..
Oscoda.....	Total.	21	1	1	3	1	1	1	4	3	.....	.....	3	3	..
	Males.	12	1	.....	2	.....	.....	.....	4	1	.....	.....	2	2	..
	Fem..	9	.....	1	1	1	1	1	.....	2	.....	.....	1	1	..

TABLE I.—Concluded.—Births in Michigan, by months, counties and sex, 1901.

Counties.	Sex.	Year, 1901.	Months, 1901.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Otsego.....	Totals	121	10	7	7	11	21	13	9	7	7	10	7	12	..
	Males.	58	5	3	4	3	13	7	5	4	3	3	4	4	..
	Fem..	62	5	4	3	8	8	6	3	3	4	7	3	8	..
	Unk...	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	..
Ottawa	Totals	718	43	51	69	56	59	56	54	68	74	68	66	54	..
	Males.	374	17	31	39	32	25	33	30	32	37	37	32	29	..
	Fem..	342	26	20	30	24	34	23	24	36	37	30	33	25	..
	Unk...	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	..
Presque Isle	Totals	227	11	11	15	27	24	21	21	25	23	13	18	18	..
	Males.	136	5	5	15	16	15	14	9	12	16	8	11	10	..
	Fem..	91	6	6	.....	11	9	7	12	13	7	5	7	8	..
Roscommon	Totals	40	1	4	2	8	6	2	3	4	4	2	2	2	..
	Males.	23	1	2	1	5	3	2	1	2	3	1	1	1	..
	Fem..	17	.....	2	1	3	3	.....	2	2	1	1	1	1	..
Saginaw...	Totals	1,636	128	155	166	135	145	99	125	142	145	116	123	157	..
	Males.	864	75	87	87	68	71	58	65	74	66	59	65	89	..
	Fem..	771	53	67	79	67	74	41	60	68	79	57	58	68	..
	Unk...	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..
St. Clair....	Totals	871	44	46	74	58	69	67	78	88	90	97	84	76	..
	Males.	465	25	34	43	28	30	34	42	37	52	56	49	35	..
	Fem..	406	19	12	31	30	39	33	36	51	38	41	35	41	..
St. Joseph.	Totals	286	21	25	26	19	25	32	27	30	19	13	26	23	..
	Males.	157	12	15	13	11	11	19	13	19	11	10	12	11	..
	Fem..	129	9	10	13	8	14	13	14	11	8	3	14	12	..
Sanilac	Totals	710	37	51	53	52	63	53	67	78	71	66	63	55	1
	Males.	374	15	27	28	27	35	21	36	43	36	44	32	29	1
	Fem..	334	22	24	23	25	28	32	31	35	35	22	31	26	..
	Unk...	2	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	..
Schoolcraft	Totals	193	21	13	15	17	14	12	17	21	18	13	16	16	..
	Males.	85	7	7	8	7	2	7	8	8	8	4	9	10	..
	Fem..	108	14	6	7	10	12	5	9	13	10	9	7	6	..
Shiawassee	Totals	417	23	29	34	38	30	41	49	37	39	24	30	40	3
	Males.	208	14	18	17	19	15	16	20	16	25	14	14	18	2
	Fem..	209	9	11	17	19	15	25	29	21	14	10	16	22	1
Tuscola....	Totals	548	21	37	47	57	45	49	54	69	53	39	35	42	..
	Males.	270	11	17	26	28	21	23	18	28	32	24	17	25	..
	Fem..	278	10	20	21	29	24	26	36	41	21	15	18	17	..
Van Buren.	Totals	391	29	29	38	44	27	31	36	42	34	25	30	26	..
	Males.	203	15	20	13	15	16	17	25	19	20	13	18	12	..
	Fem..	187	14	9	25	29	11	13	11	23	14	12	12	14	..
	Unk...	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	..
Washtenaw	Totals	516	40	32	39	26	39	42	40	48	56	58	40	56	..
	Males.	267	18	18	18	16	16	22	17	28	32	27	23	32	..
	Fem..	249	22	14	21	10	23	20	23	20	24	31	17	24	..
Wayne.....	Totals	7,439	573	523	614	590	572	612	611	664	644	629	667	738	2
	Males.	3,811	288	298	307	295	311	300	328	350	298	303	355	378	..
	Fem..	3,588	283	222	304	290	259	311	283	312	342	321	306	353	2
	Unk...	40	2	3	3	5	2	1	.....	2	4	5	6	7	..
Wexford...	Totals	332	22	23	32	36	41	26	20	34	26	24	25	23	..
	Males.	175	10	9	12	23	28	17	6	20	15	11	11	13	..
	Fem..	157	12	14	20	13	13	9	14	14	11	13	14	10	..

TABLE II.—Births in Michigan, by nativity of parents, counties and sex, as enumerated by supervisors and assessors for the year 1901. (Stillbirths included.)

State and counties.	Sex.	Children born, 1901.	Nativity of parents of children born in 1901.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father— Native.	Mother unknown. Father— Foreign.	Father unknown. Mother— Native.	Father unknown. Mother— Foreign.	Both unknown.
STATE	Totals.	43,221	20,336	13,563	5,270	3,193	116	51	178	38	476
	Males.	22,279	10,429	7,061	2,712	1,648	61	29	84	16	239
	Fem.	20,838	9,875	6,489	2,550	1,540	55	21	91	22	195
	Unk.	104	32	13	8	5	.....	1	3	.....	42
Alcona	Totals.	81	23	23	18	16	.....	.....	.....	.....	1
	Males.	40	14	9	7	9	.....	.....	.....	.....	1
	Fem.	41	9	14	11	7	.....	.....	.....	.....	....
Alger	Totals.	101	45	40	10	5	.....	1	.....	.....	....
	Males.	55	24	25	3	2	.....	1	.....	.....	....
	Fem.	45	20	15	7	3	.....	.....	.....	.....	....
	Unk.	1	1	.....	.....	.....	.....	.....	.....	.....	....
Allegan	Totals.	574	467	35	38	25	4	.....	2	1	2
	Males.	278	225	14	22	13	2	.....	.....	1	1
	Fem.	294	242	21	15	12	2	.....	1	.....	1
	Unk.	2	.....	.....	1	.....	.....	.....	1	.....	....
Alpena	Totals.	472	102	221	95	53	.....	.....	1	.....	....
	Males.	230	53	107	45	24	.....	.....	1	.....	....
	Fem.	240	49	113	49	29	.....	.....	.....	.....	....
	Unk.	2	.....	1	1	.....	.....	.....	.....	.....	....
Antrim	Totals.	219	111	38	44	19	2	5	.....	.....	....
	Males.	112	58	18	23	9	1	3	.....	.....	....
	Fem.	107	53	20	21	10	1	2	.....	.....	....
Arenac	Totals.	200	81	55	41	16	1	.....	1	.....	5
	Males.	90	32	28	21	7	1	.....	.....	.....	1
	Fem.	109	49	27	19	9	.....	.....	1	.....	4
	Unk.	1	.....	.....	1	.....	.....	.....	.....	.....	....
Baraga	Totals.	104	35	40	15	7	.....	1	3	3	....
	Males.	58	19	20	11	3	.....	1	2	2	....
	Fem.	46	16	20	4	4	.....	.....	1	1	....
Barry	Totals.	319	287	9	16	6	.....	.....	1	.....	....
	Males.	156	135	7	9	5	.....	.....	.....	.....	....
	Fem.	163	152	2	7	1	.....	.....	1	.....	....
Bay	Totals.	1,362	475	528	207	141	5	2	2	1	1
	Males.	720	252	279	112	72	4	1	.....	.....	....
	Fem.	642	223	249	95	69	1	1	2	1	1
Benzie	Totals.	219	145	31	18	15	1	1	6	1	1
	Males.	120	81	16	11	8	.....	1	2	1	....
	Fem.	98	63	15	7	7	1	.....	4	.....	1
	Unk.	1	1	.....	.....	.....	.....	.....	.....	.....	....
Berrien	Totals.	572	376	119	40	22	1	6	4	.....	4
	Males.	303	201	64	20	9	1	4	3	.....	1
	Fem.	269	175	55	20	13	.....	2	1	.....	3
Branch	Totals.	337	298	9	15	10	.....	.....	2	.....	3
	Males.	158	133	5	9	7	.....	.....	1	.....	3
	Fem.	179	165	4	6	3	.....	.....	1	.....	....
Calhoun	Totals.	623	518	25	43	30	1	.....	2	.....	4
	Males.	333	286	11	18	13	1	.....	2	.....	3
	Fem.	287	230	14	24	17	.....	.....	.....	.....	2
	Unk.	3	2	.....	1	.....	.....	.....	.....	.....	....
Cass	Totals.	235	208	2	12	8	3	.....	1	.....	1
	Males.	121	106	1	4	7	1	.....	1	.....	1
	Fem.	114	102	1	8	1	2	.....	.....	.....	....

TABLE II.—Continued.—Births by counties, parent nativity and sex, 1901.

Counties.	Sex.	Children born, 1901.	Nativity of parents of children born in 1901.								
			Both native born.	Both foreign born.	Foreign father and native mother	Foreign mother and native father.	Mother unknown. Father— Native.	Mother unknown. Father— Foreign.	Father unknown. Mother— Native.	Father unknown. Mother— Foreign.	Both unknown.
Charlevoix	Totals.	247	159	31	32	20	.....	.....	2	.....	3
	Males.	116	75	13	16	8	.....	.....	2	.....	2
	Fem.	131	84	18	16	12	.....	.....	.....	.....	1
Cheboygan	Totals.	291	119	94	50	25	1	.....	1	.....	1
	Males.	151	70	44	22	15	.....	.....	.....	.....	....
	Fem.	138	49	49	28	10	1	.....	1	.....	....
	Unk.	2	.....	1	.....	.....	.....	.....	.....	.....	1
Chippewa	Totals.	399	61	187	77	46	.....	4	4	7	13
	Males.	216	30	108	40	24	.....	2	2	3	7
	Fem.	183	31	79	37	22	.....	2	2	4	6
Clare	Totals.	160	101	20	24	6	2	.....	5	.....	2
	Males.	83	48	14	12	3	1	.....	3	.....	2
	Fem.	77	53	6	12	3	1	.....	2	.....	....
Clinton	Totals.	371	326	12	17	16	.....	.....	.....	.....	....
	Males.	190	170	4	10	6	.....	.....	.....	.....	....
	Fem.	181	156	8	7	10	.....	.....	.....	.....	....
Crawford	Totals.	36	17	8	8	3	.....	.....	.....	.....	....
	Males.	19	11	5	2	1	.....	.....	.....	.....	....
	Fem.	15	6	3	5	1	.....	.....	.....	.....	....
	Unk.	2	.....	.....	1	1	.....	.....	.....	.....	....
Delta	Totals.	656	155	328	96	41	4	6	5	.....	21
	Males.	345	81	181	47	18	1	3	4	.....	10
	Fem.	306	73	144	49	23	3	3	.....	.....	11
	Unk.	5	1	3	.....	.....	.....	.....	1	.....	....
Dickinson	Totals.	618	64	485	46	22	.....	.....	.....	1	....
	Males.	320	33	257	20	9	.....	.....	.....	1	....
	Fem.	298	31	228	26	13	.....	.....	.....	.....	....
Eaton	Totals.	385	344	8	18	14	.....	.....	1	.....	....
	Males.	207	191	2	6	8	.....	.....	.....	.....	....
	Fem.	178	153	6	12	6	.....	.....	1	.....	....
Emmet	Totals.	271	181	37	26	21	.....	.....	4	.....	2
	Males.	134	91	19	12	9	.....	.....	1	.....	2
	Fem.	137	90	18	14	12	.....	.....	3	.....	....
Genesee	Totals.	471	373	24	40	31	2	.....	1	.....	....
	Males.	249	195	10	24	17	2	.....	1	.....	....
	Fem.	220	177	13	16	14	.....	.....	.....	.....	....
	Unk.	2	1	1	.....	.....	.....	.....	.....	.....	....
Gladwin	Totals.	166	88	27	32	17	1	.....	1	.....	....
	Males.	95	53	17	16	9	.....	.....	.....	.....	....
	Fem.	71	35	10	16	8	1	.....	1	.....	....
Gogebic	Totals.	558	59	466	21	11	.....	.....	.....	.....	1
	Males.	291	26	242	17	6	.....	.....	.....	.....	....
	Fem.	267	33	224	4	5	.....	.....	.....	.....	1
G'd Traverse	Totals.	285	214	19	32	18	1	.....	1	.....	....
	Males.	133	100	8	16	8	1	.....	.....	.....	....
	Fem.	152	114	11	16	10	.....	.....	1	.....	....
Gratiot	Totals.	379	318	8	24	28	.....	.....	1	.....	....
	Males.	199	168	4	13	14	.....	.....	.....	.....	....
	Fem.	180	150	4	11	14	.....	.....	1	.....	....
Hillsdale	Totals.	312	281	4	11	9	3	.....	.....	.....	4
	Males.	157	140	3	6	6	2	.....	.....	.....	....
	Fem.	154	140	1	5	3	1	.....	.....	.....	4
	Unk.	1	1	.....	.....	.....	.....	.....	.....	.....	....

TABLE II.—Continued.—Births by counties, parent nativity and sex, 1901

Counties.	Sex.	Children born, 1901.	Nativity of parents of children born in 1901.							
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown.		Fathe unknov	
							Father—		Mothe	
							Native.	Foreign.	Native.	
Houghton	Totals.	2,682	412	1,810	337	119	.....	.....	1	
	Males.	1,429	217	974	170	66	.....	.....	1	..
	Fem.	1,253	195	836	167	53	.....	.....	.....	
Huron	Totals.	818	268	267	169	104	3	1	1	
	Males.	440	159	138	86	55	.....	1	1	..
	Fem.	377	109	129	82	49	3	.....	.....	..
	Unk.	1	.....	.....	1	.....	.....	.....	.....	..
Ingham	Totals.	431	308	54	25	19	15	.....	3	..
	Males.	221	152	29	13	13	8	.....	2	..
	Fem.	207	153	25	12	6	7	.....	1	..
	Unk.	3	3	.....	.....	.....	.....	.....	.....	..
Ionia	Totals.	408	336	20	36	15	.....	.....	1	..
	Males.	209	173	14	12	9	.....	.....	1	..
	Fem.	199	163	6	24	6	.....	.....	.....	..
Iosco	Totals.	224	76	82	32	32	1	.....	1	..
	Males.	114	86	43	19	14	1	.....	1	..
	Fem.	110	40	39	13	18	.....	.....	.....	..
Iron	Totals.	215	27	163	20	5	.....	.....	.....	..
	Males.	117	15	89	11	2	.....	.....	.....	..
	Fem.	97	12	74	8	3	.....	.....	.....	..
	Unk.	1	.....	.....	1	.....	.....	.....	.....	..
Isabella	Totals.	455	327	21	88	18	.....	.....	.....	..
	Males.	225	166	10	38	10	.....	.....	.....	..
	Fem.	228	161	9	50	8	.....	.....	.....	..
	Unk.	2	.....	2	.....	.....	.....	.....	.....	..
Jackson	Totals.	696	512	78	44	49	4	1	2	..
	Males.	364	276	42	18	24	2	1	.....	..
	Fem.	332	236	36	26	25	2	.....	2	..
Kalamazoo	Totals.	557	330	122	52	40	2	1	5	..
	Males.	277	168	57	25	20	1	1	2	..
	Fem.	269	155	63	27	19	1	.....	3	..
	Unk.	11	7	2	.....	1	.....	.....	.....	..
Kalkaska	Totals.	116	87	5	15	7	1	.....	1	..
	Males.	66	50	3	6	5	1	.....	1	..
	Fem.	50	37	2	9	2	.....	.....	.....	..
Kent	Totals.	1,924	814	665	225	151	2	2	25	
	Males.	990	420	335	125	78	1	.....	9	..
	Fem.	932	393	330	100	73	1	2	15	
	Unk.	2	1	.....	.....	.....	.....	.....	1	..
Keweenaw	Totals.	107	23	71	12	1	.....	.....	.....	..
	Males.	54	9	38	6	1	.....	.....	.....	..
	Fem.	53	14	33	6	.....	.....	.....	.....	..
Lake	Totals.	100	59	12	16	10	.....	.....	3	..
	Males.	46	26	5	7	6	.....	.....	2	..
	Fem.	54	33	7	9	4	.....	.....	1	..
Lapeer	Totals.	342	227	27	43	44	.....	.....	1	..
	Males.	185	121	17	23	24	.....	.....	.....	..
	Fem.	157	106	10	20	20	.....	.....	1	..
Leelanau	Totals.	159	86	36	24	13	.....	.....	.....	..
	Males.	66	33	16	10	7	.....	.....	.....	..
	Fem.	93	53	20	14	6	.....	.....	.....	..
Lenawee	Totals.	565	483	22	35	21	1	.....	3	..
	Males.	293	257	7	19	10	.....	.....	.....	..
	Fem.	271	225	15	16	11	1	.....	3	..
	Unk.	1	1	.....	.....	.....	.....	.....	.....	..

TABLE II.—Continued.—Births by counties, parent nativity and sex, 1901.

Counties.	Sex.	Children born, 1901.	Nativity of parents of children born in 1901.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father— Native.	Mother unknown. Father— Foreign.	Father unknown. Mother— Native.	Father unknown. Mother— Foreign.	Both unknown.
Livingston	Totals.	237	203	11	10	13	...	...	...	...	...
	Males	125	109	4	5	7	...	...	...	...	...
	Fem.	111	93	7	5	6	...	...	...	...	...
	Unk.	1	1	...	...	...	...	...	...	...	...
Luce	Totals.	74	16	48	3	7	...	...	...	...	...
	Males	39	6	29	1	3	...	...	...	...	...
	Fem.	35	10	19	2	4	...	...	...	...	...
Mackinac	Totals.	121	46	44	13	6	4	2	1	...	4
	Males	65	24	23	7	4	3	2	...	...	2
	Fem.	56	22	21	6	2	1	1	1	...	2
Macomb	Totals.	468	311	65	46	45	1	...	...	...	...
	Males	223	146	33	25	19	...	...	...	...	...
	Fem.	245	165	32	21	26	1	...	...	...	...
Manistee	Totals.	470	130	244	62	31	1	...	2	...	...
	Males	237	66	121	33	15	1	...	1	...	...
	Fem.	233	64	123	29	16	...	...	1	...	...
Marquette	Totals.	1,429	241	907	212	57	...	...	6	4	2
	Males	728	133	461	98	31	...	...	1	2	2
	Fem.	700	107	446	114	26	...	...	5	2	...
	Unk.	1	1	...	...	...	...	...	...	...	...
Mason	Totals.	376	149	138	59	26	1	1	2	...	...
	Males	176	69	65	30	10	1	...	1	...	...
	Fem.	198	79	73	28	16	...	1	1	...	...
	Unk.	2	1	...	1	...	...	...	...	...	...
Mecosta	Totals.	332	223	44	42	17	2	...	2	...	2
	Males	161	108	18	24	6	2	...	1	...	2
	Fem.	169	113	26	18	11	...	...	1	...	...
	Unk.	2	2	...	...	...	...	...	...	...	...
Menominee	Totals.	585	131	324	86	39	...	...	2	1	2
	Males	300	67	170	40	21	...	...	1	...	1
	Fem.	285	64	154	46	18	...	...	1	1	1
Midland	Totals.	252	139	43	38	29	...	...	2	...	1
	Males	128	68	24	19	15	...	...	2	...	...
	Fem.	124	71	19	19	14	...	...	...	...	1
Missaukee	Totals.	220	100	63	35	21	...	...	1	...	...
	Males	122	57	35	20	10	...	...	...	...	...
	Fem.	98	43	28	15	11	...	...	1	...	...
Monroe	Totals.	543	461	22	38	19	...	...	3	...	...
	Males	281	243	10	20	7	...	...	1	...	...
	Fem.	262	218	12	18	12	...	...	2	...	...
Montcalm	Totals.	442	294	72	41	25	3	...	...	...	7
	Males	216	145	32	16	15	1	...	...	...	7
	Fem.	224	148	39	25	10	2	...	...	...	...
	Unk.	2	1	1	...	...	...	...	...	...	...
Montmorency	Totals.	32	10	11	6	2	...	...	2	...	1
	Males	13	4	3	4	...	...	...	1	...	1
	Fem.	19	6	8	2	2	...	...	1	...	...
Muskegon	Totals.	691	275	262	95	58	...	...	1	...	...
	Males	344	135	129	50	30	...	...	...	...	...
	Fem.	347	140	133	45	28	...	...	1	...	...
Newaygo	Totals.	235	161	26	22	15	...	...	...	...	1
	Males	116	86	11	10	8	...	...	...	...	1
	Fem.	109	75	15	12	7	...	...	...	...	...
.. ..	Totals.	540	361	60	53	55	2	...	4	...	5
	Males	283	185	32	34	28	...	...	2	...	2
	Fem.	257	176	28	19	27	2	...	2	...	

TABLE II.—Continued.—Births by counties, parent nativity and sex, 1901

Counties.	Sex.	Children born, 1901.	Nativity of parents of children born in 1901.							
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown — Father— Native.	Mother unknown — Father— Foreign.	Father unknown — Mother Native.	Father unknown — Mother Foreign.
Oceana	Totals.	276	191	32	30	21	.....	.....	2	..
	Males.	143	101	17	16	8	.....	.....	1	..
	Fem.	133	90	15	14	13	.....	.....	1	..
Ogemaw	Totals.	113	46	26	20	10	.....	1	1	..
	Males.	61	20	13	14	8	.....	.....	.....	..
	Fem.	52	26	13	6	2	.....	1	1	..
Ontonagon	Totals.	173	37	58	20	15	12	7	1	..
	Males.	96	22	31	11	8	5	3	1	..
	Fem.	71	13	27	9	6	7	3	.....	..
	Unk.	6	2	.....	.....	1	.....	1	.....	..
Osceola	Totals.	334	188	55	62	29	.....	.....	.....	..
	Males.	165	94	24	26	21	.....	.....	.....	..
	Fem.	169	94	31	36	8	.....	.....	.....	..
Oscoda	Totals.	21	16	.....	4	1	.....	.....	.....	..
	Males.	12	9	.....	2	1	.....	.....	.....	..
	Fem.	9	7	.....	2	.....	.....	.....	.....	..
Otsego	Totals.	121	51	36	21	13	.....	.....	.....	..
	Males.	58	20	19	13	6	.....	.....	.....	..
	Fem.	62	30	17	8	7	.....	.....	.....	..
	Unk.	1	1	.....	.....	.....	.....	.....	.....	..
Ottawa	Totals.	718	341	174	119	79	3	.....	2	..
	Males.	374	172	92	67	42	1	.....	.....	..
	Fem.	342	167	82	52	37	2	.....	2	..
	Unk.	2	2	.....	.....	.....	.....	.....	.....	..
Presque Isle	Totals.	227	111	53	43	18	1	1	.....	..
	Males.	136	62	35	25	13	.....	1	.....	..
	Fem.	91	49	18	18	5	1	.....	.....	..
Roscommon	Totals.	40	29	2	5	3	.....	.....	1	..
	Males.	23	16	2	2	2	.....	.....	1	..
	Fem.	17	13	.....	3	1	.....	.....	.....	..
Saginaw	Totals.	1,636	800	369	274	191	.....	.....	1	..
	Males.	864	403	200	158	102	.....	.....	1	..
	Fem.	771	397	169	116	88	.....	.....	.....	..
	Unk.	1	.....	.....	.....	1	.....	.....	.....	..
St. Clair	Totals.	871	460	187	127	93	2	.....	2	..
	Males.	465	253	92	64	53	2	.....	1	..
	Fem.	406	207	95	63	40	.....	.....	1	..
St. Joseph	Totals.	286	248	5	21	8	1	.....	1	..
	Males.	157	137	4	9	5	1	.....	.....	..
	Fem.	129	111	1	12	3	.....	.....	1	..
Sanilac	Totals.	710	242	200	171	95	.....	.....	1	
	Males.	374	119	114	97	42	.....	.....	1	
	Fem.	334	123	84	74	53	.....	.....	.....	..
	Unk.	2	.....	2	.....	.....	.....	.....	.....	..
Schoolcraft	Totals.	193	53	98	30	12	.....	.....	.....	..
	Males.	85	25	41	15	4	.....	.....	.....	..
	Fem.	108	28	57	15	8	.....	.....	.....	..
Shiawassee	Totals.	417	327	29	35	15	1	.....	6	..
	Males.	208	171	9	17	6	1	.....	3	..
	Fem.	209	156	20	18	9	.....	.....	3	..
Tuscola	Totals.	548	315	68	96	61	1	.....	5	
	Males.	270	159	36	40	31	.....	.....	4	..
	Fem.	278	156	32	56	30	1	.....	1	

BLE II.—Concluded.—Births by counties, parent nativity and sex, 1901.

Sex.	Children born, 1901.	Nativity of parents of children born in 1901.								
		Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father— Native.	Mother unknown. Father— Foreign.	Father unknown. Mother— Native.	Father unknown. Mother— Foreign.	Both unknown.
Totals	301	337	15	14	13	2	1	7	.....	2
Males	203	179	9	6	5	1	.....	3	.....	....
Fem	187	157	6	8	8	1	1	4	.....	2
Unk	1	1	.....	.....	.....	.....	.....	.....	.....	....
Totals	516	349	66	57	34	2	.....	7	.....	1
Males	267	168	36	34	23	.....	.....	6	.....	....
Fem	249	181	30	23	11	2	.....	1	.....	1
Totals	7,439	2,355	3,240	884	639	14	5	13	11	278
Males	3,811	1,174	1,692	456	335	8	3	5	5	133
Fem	3,588	1,180	1,548	428	303	6	2	8	6	107
Unk	40	1	.....	.....	1	.....	.....	.....	.....	38
Totals	332	183	78	37	29	2	1	2	.....	....
Males	175	95	43	22	11	2	1	1	.....	....
Fem	157	88	35	15	18	.....	.....	1	.....	....

[illegible] in Michigan, by counties a[illegible] 1901. Also number of still [illegible] for the same year.

[illegible]	Number of still-births in 1901, as returned in births.	Number of twins born in 1901.*	Number of illegitimate children born in 1901.*	[illegible]
	451	817	75	
[illegible]	3	.....	.....	
[illegible]	2	.....	1	
[illegible]	13	10	2	
[illegible]	8	12	2	
[illegible]	8	4	[illegible]	
[illegible]	6	4	[illegible]	
[illegible]	2	2	.....	
[illegible]	7	4	.....	
[illegible]	13	26	2	
[illegible]	3	.....	[illegible]	
[illegible]	4	6	3	
[illegible]	5	12	4	
[illegible]	3	10	[illegible]	
[illegible]	4	2	3	
[illegible]	4	2	1	
[illegible]	1	8	1	
[illegible]	3	2	33	
[illegible]	1	4	.....	
[illegible]	4	4	.....	
[illegible]	2	.....	.....	
[illegible]	5	10	2	
[illegible]	12	16		
[illegible]	10	6	1	
[illegible]	1	10	3	
[illegible]	8	8	1	
[illegible]	4	2	.....	
[illegible]	6	10	2	
[illegible]	1	6	.....	
[illegible]	4	4	3	
[illegible]	1	4	1	
[illegible]	26	38	5	
[illegible]	8	28	3	
[illegible]	5	2	8	
[illegible]	5	8	1	
[illegible]	.....	2	1	
[illegible]	2	.....	.....	
[illegible]	4	10	7	
[illegible]	5	10	.....	
[illegible]	2	8	2	
[illegible]	2	4	1	
[illegible]	15	24	24	
[illegible]	7	4	.....	
[illegible]	.....	.....	3	
[illegible]	2	7	1	
[illegible]	.....	8	2	
[illegible]	1	7	1	
[illegible]	5	4	.....	
[illegible]	.....	2	.....	
[illegible]	1	.....	1	
[illegible]	4	14	1	
[illegible]	7	8		
[illegible]	37	22	10	
[illegible]	4	7	3	
[illegible]	5	7	1	
[illegible]	.....	11	.....	
[illegible]	4	8	2	
[illegible]	2	7	1	

TABLE III.—Concluded.—Stillbirths, twins and illegitimate births, by counties, year 1901.

Counties.	Number of stillbirths in 1901, as returned in births.	Number of twins born in 1901.*	Number of illegitimate children born in 1901.*	Number of stillbirths in 1901, registered as deaths.
Monroe	2	18	3	12
Montcalm	2	4	2	20
Montmorency	4	4	2	2
Muskegon	10	14	1	24
Newaygo	1	8	.....	7
Oakland	4	16	1	8
Oceana	3	8	3	8
Ogemaw	2	4	.....	4
Ontonagon	1	8	.....	1
Osceola	1	14	4	5
Oscoda	.....	.....	.....	.....
Otsego	3	2	.....	3
Ottawa	4	12	1	32
Presque Isle	1	4	.....	5
Roscommon	.....	.....	1	1
Saginaw	13	28	1	60
St. Clair	12	28	3	45
St. Joseph	4	8	.....	11
Sanilac	6	18	3	12
Schoolcraft	1	2	3	6
Shiawassee	3	16	3	8
Tuscola	9	15	6	16
Van Buren	2	4	3	6
Washtenaw	5	18	3	16
Wayne	38	132	180	384
Wexford	4	8	3	12

TRIPLETS.—There were three cases of triplets reported in 1901, as follows: Cheboygan county, males, foreign parents, born in January; Menominee county, male and two females, foreign parents, born in January; Tuscola county, male and two females, native parents, born in June.

* Stillbirths included.

TABLE IV.—Stillbirths, twins and illegitimate births in Michigan, by months and sex, as enumerated by supervisors and assessors for the year 1901. Also number of stillbirths registered as deaths and returned by registrars for the same year.

Condition.	Sex.	Year 1901.	Months of births, 1901.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Stillbirths (from returns of births.)	Total	451	23	29	40	29	30	37	35	40	46	38	39	63	2
	Males	252	15	16	21	22	17	20	21	21	28	21	22	27	1
	Fem.	166	7	12	13	6	13	14	12	17	16	14	14	27	1
	Unk.	33	1	1	6	1	.....	3	2	2	2	3	3	9	..
Twins*	Total	817	53	47	72	74	76	93	80	76	70	44	48	82	2
	Males	423	28	31	35	33	42	52	47	45	25	25	21	38	1
	Fem.	385	25	16	35	39	34	41	33	31	44	19	25	42	1
	Unk.	9	.....	.....	2	2	.....	.....	.....	.....	1	.....	2	2	..
Illegitimates*	Total	365	39	23	35	30	31	32	31	33	25	20	30	34	2
	Males	173	13	13	19	15	11	15	16	15	14	10	15	16	1
	Fem.	173	25	9	14	13	19	17	15	16	10	7	13	14	1
	Unk.	19	1	1	2	2	1	.....	.....	2	1	3	2	4	..
Stillbirths (from returns of deaths).	Total	1,501	90	109	147	132	130	135	124	138	90	129	141	136	..
	Males	824	43	55	89	72	77	78	70	83	41	78	64	73	..
	Fem.	649	45	52	53	58	52	55	53	54	46	47	75	60	..
	Unk.	28	2	2	5	2	1	2	1	1	3	4	2	3	..

* Stillbirths included.

TABLE V. Stillbirths, twins and illegitimate births in Michigan, by nativity of parents, as enumerated by supervisors and assessors for the year 1901.

Nativity of parents.	Number of stillborn children, 1901.				Number of twins, 1901.*				Number of illegitimate children, 1901.*			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
All nativities	451	252	166	33	817	423	385	9	365	173	173	19
Both native born	219	120	82	17	388	198	190	....	39	17	22	....
Both foreign born	138	84	48	6	265	117	144	4	5	1	4	....
Foreign father and native mother	39	22	11	6	88	42	45	1	6	2	4	....
Foreign mother and native father	36	17	17	2	60	32	28	....	5	1	4	....
Unknown mother, father native	1	1	.....	....	....	....	....	....	3	2	1	....
Unknown mother, father foreign	.....	.....	.....	.....	6	2	4	....	.....	.....	.....	....
Unknown father, mother native	5	3	2	....	....	.....	....	....	78	40	35	3
Unknown father, mother foreign	2	1	1	..	2	.....	2	.	18	7	11	...
Both unknown	11	4	5	2	8	2	2	4	211	103	92	16
One or both native	300	163	112	25	536	272	263	1	131	62	66	3
One or both foreign	215	121	77	14	421	263	193	5	34	11	23	....

* Stillbirths included.

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ERRATA.

In the last column of Table 29, p. lxxxix, the per cents of deaths of *males* and *females* (not of the totals) to total deaths of each sex are incorrectly stated. Following are the correct figures: *Males:* Cancer of mouth, 4.9; cancer of stomach and liver, 51.0; cancer of intestines, 9.6; cancer of genital organs, 0.2; cancer of breast, 0.3; cancer of skin, 8.8; cancer of other organs or unspecified organs, 25.2. *Females:* Cancer of mouth, 1.2; cancer of stomach and liver, 30.8; cancer of intestines, 7.7; cancer of genital organs, 23.4; cancer of breast, 14.1; cancer of skin, 2.4; cancer of other organs or unspecified organs, 20.3.

THIRTY-SIXTH ANNUAL REPORT

OF THE

SECRETARY OF STATE

ON THE

REGISTRATION

OF

BIRTHS AND DEATHS

MARRIAGES AND DIVORCES

IN

MICHIGAN

FOR THE YEAR 1902.

GEORGE A. PRESCOTT

SECRETARY OF STATE

BY AUTHORITY

LANSING, MICHIGAN.
WYNKOOP HALLENBECK CRAWFORD CO., STATE PRINTERS.
1906

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ARY
176355

LETTER OF TRANSMITTAL.

STATE DEPARTMENT,
Lansing, Mich., June 30, 1906.

To His Excellency, Fred M. Warner, Governor:

Sir—I hereby transmit the Thirty-sixth Annual Registration Report of Michigan, containing statistics of births and deaths, marriages and divorces in this State during the year 1902, as required by law.

Respectfully,
GEORGE A. PRESCOTT,
Secretary of State.

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THIRTY-SIXTH ANNUAL

REGISTRATION REPORT OF MICHIGAN

CONTAINING VITAL STATISTICS FOR THE YEAR 1902.

PART I.—VITAL STATISTICS AND POPULATION, 1902.

This part of the report is intended to give a general idea of the results of registration during the year 1902, and to serve as an introduction to the more detailed study of the statistics in the divisions following.

This is the fifth report issued from this Department since the operation of the new registration law for deaths, which went into effect August twenty-ninth, 1897, and as the law has been longer in operation, and hence more widely and better understood, it is probable that a somewhat higher degree of accuracy in returns has been attained than in the earlier years of its operation.

VITAL STATISTICS RETURNED FOR 1902.

In the following summary will be found some of the principal facts relating to returns of vital statistics in the State for the year 1902:

Total number of deaths, 1902	31,472
Deaths per 1,000 estimated population, 1902	12.7
Total number of marriages, 1902	25,653
Persons married, 1902	51,306
Persons married per 1,000 estimated population, 1902	20.7
Total number of divorces, 1902	2,828
Persons divorced per 1,000 estimated population, 1902	2.3
Total number of births, 1902	45,546
Births per 1,000 estimated population, 1902	18.4

The usual comparison of births and deaths, their difference constituting what is known as the natural increase of population, cannot be made, since the improved accuracy of the returns of deaths removes them from the plane of comparison with the very imperfect returns of births.

RETURNS BY MONTHS.

The distribution of the returns by months during the year 1902 may be seen in Table 1. The average daily numbers of deaths, marriages and births are also given for the year and months. This average enables comparisons to be made of the rates of mortality, nuptiality and natality between the several months with as much accuracy as by computation of rates. The imperfections of the returns of births, however, invalidate the figures in this respect. It will be noted that the month of greatest

mortality was April, and the month of least daily mortality was June. The maximum number of marriages per day was in the month of June, and the least number in March. Owing to the large number of marriages of non-residents included in the returns of the present year most of which were performed at St. Joseph during the summer excursion season, the relations of the months in regard to marriages of inhabitants of this State are not correctly shown. The highest daily number of births was in August, and the least daily number in January. As the deaths are now much more accurately registered than the births, no inferences can be drawn as to the amount of natural increase in the several months of the year.

Table 1.—Vital statistics of Michigan, by months, 1902.

	Total number registered, 1902.	Returns by months, 1902.												
		Jan.	Feb.	Mar	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
DEATHS:*														
Number.....	31,472	2,863	2,695	2,982	2,894	2,735	2,244	2,500	2,506	2,584	2,389	2,381	2,699	.....
Daily average...	86.2	92.4	96.3	96.2	96.5	88.2	74.8	80.6	80.8	86.1	77.1	79.4	87.1	.....
MARRIAGES:														
Number.....	25,653	1,767	1,430	1,571	2,190	1,846	2,753	2,009	1,982	2,435	2,572	2,559	2,533	6
Daily average...	70.3	57.0	51.1	50.7	70.7	59.5	91.8	64.8	63.9	81.2	83.0	85.3	81.7	.....
BIRTHS:†														
Number.....	45,546	3,220	3,200	3,881	3,667	3,888	3,786	4,065	4,154	3,963	3,893	3,741	4,049	39
Daily average...	124.8	103.9	114.3	125.2	122.2	125.4	126.2	131.1	134.0	132.1	125.6	124.7	130.6	.....

*Stillbirths excluded.
†Stillbirths included.

COMPARISON OF 1902 WITH PREVIOUS YEARS OF REGISTRATION.

The vital statistics for the year 1902 may be compared with the returns for the preceding years of registration by means of Table 2. In this Table estimated populations are presented for the intercensal and postcensal years, by whose aid the death rates, marriage rates and birth rates may be computed for each year, and thus fairly accurate comparisons be made of the data with allowance for the increase of population of the State.

According to the returns the number of marriages recorded in 1902, 25,653, was the largest ever registered in Michigan. This is due in part, however, to the fostered marriage industry at St. Joseph, where a large number of non-resident marriages are performed during the summer excursion season, so that the true increase was probably not as large as indicated.

The marriage rate for the year, including these foreign marriages, was 20.7 per 1,000 population; that for the preceding year being 19.6 per 1,000 population, and for 1900, 19.2 per 1,000 population.

The number of births for the year, 45,546, exceeded the number returned for 1901 by 2,325, and the number for 1900, by 1,847, the rates for the corresponding years being 18.4, 17.6 and 18.1 respectively.

It will be noted in Table 2 that no attempt has been made to indicate the excess of births over deaths. This is necessarily so, because as the deaths are more accurately registered than the births, it is evident that no just comparisons can be made.

Table 2.—Marriages, births and deaths registered in Michigan for the years 1867-1902, with rates per 1,000 population. (Stillbirths included in births but not in deaths).

Years.	Population.	Registration returns, 1867-1902.			Rates per 1,000 population.		
		Number of marriages.	Number of births.*	Number of deaths.†	Persons married.	Births.*	Deaths.†
1867‡	993,902	4,312	14,000	4,409	.....	.....	.....
1868	1,057,288	8,697	25,020	8,189	16.5	23.7	7.7
1869	1,120,673	8,459	27,093	9,016	15.1	24.2	8.0
1870§	1,184,059	9,791	26,663	10,540	16.5	22.5	8.9
1871	1,221,552	10,605	25,992	9,460	17.4	21.3	7.7
1872	1,259,045	10,752	27,993	13,167	17.1	22.2	10.5
1873	1,296,538	11,897	34,608	13,984	18.4	26.7	10.8
1874§	1,334,031	12,255	31,151	12,036	18.4	23.4	9.0
1875	1,384,515	11,851	31,958	11,361	17.1	23.1	8.2
1876	1,435,000	11,913	34,235	11,930	16.6	23.9	8.3
1877	1,485,484	11,899	33,395	12,199	16.0	22.5	8.2
1878	1,535,968	12,850	35,162	11,973	16.8	22.9	7.7
1879	1,586,453	13,892	34,122	13,658	17.5	21.5	8.6
1880§	1,636,937	14,935	35,323	15,364	18.2	21.6	9.4
1881	1,691,117	15,894	34,749	18,547	18.8	20.5	11.0
1882	1,745,298	16,830	37,026	15,633	19.3	21.2	9.0
1883	1,799,478	17,174	40,809	16,022	19.1	22.7	8.9
1884§	1,853 658	15,989	40,408	17,137	17.3	21.8	9.2
1885	1,893,697	15,885	42,119	15,638	16.8	22.2	8.3
1886	1,933,735	16,665	41,095	17,278	17.2	21.3	8.9
1887	1,973,774	17,179	46,226	18,585	17.4	23.4	9.4
1888	2,013,812	17,297	48,952	20,406	17.2	24.3	10.1
1889	2,053,851	18,317	49,272	19,113	17.8	24.0	9.3
1890§	2,093,889	18,664	52,306	20,245	17.8	25.0	9.7
1891	2,130,827	19,244	50,812	20,989	18.1	23.8	9.9
1892	2,167,765	20,107	46,221	20,715	18.6	21.3	9.6
1893	2,204,703	19,197	47,722	20,963	17.4	21.6	9.5
1894§	2,241,641	18,220	44,596	19,957	16.3	19.9	8.9
1895	2,271,531	18,952	46,273	21,648	16.7	20.4	9.5
1896	2,301,421	18,897	46,302	20,729	16.4	20.1	9.0
1897	2,331,311	18,579	43,688	19,150	15.9	18.7	8.2
1898	2,361,201	20,138	43,462	28,248	17.1	18.4	12.0
1899	2,391,091	21,877	41,818	32,500	18.3	17.5	13.6
1900§	2,420,982	23,295	43,699	32,559	19.2	18.1	13.4
1901	2,450,872	24,079	43,221	32,834	19.6	17.6	13.4
1902	2,475,499	25,653	45,546	31,472	20.7	18.4	12.7

*Stillbirths included in births. For the years 1867-1873 and 1898-1901 only those returned as births are so included.
†Stillbirths not included.
‡From April 5 to December 31, 1867.
§Census years.

Table 3.—Persons married per 1,000 living population in certain countries and states during the years 1888-1902.

Country or state.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.
Austria	15.9	15.1	15.1	15.6	15.6	15.9	15.9	16.2	15.9	16.2	15.7	16.6	16.5	16.3	15.5
Belgium	14.2	14.5	14.6	15.0	15.4	15.2	15.0	15.5	16.2	16.5	16.6	16.5	17.2	17.4	16.2
Denmark	14.2	14.2	13.8	13.6	13.5	14.0	13.8	14.1	14.5	14.9	15.1	15.0	15.3	14.4	14.2
France	14.4	14.2	14.0	14.9	15.1	14.9	14.9	14.7	15.1	15.1	14.8	15.3	15.5	15.6	15.1
German Empire	15.6	16.0	16.1	16.1	15.9	15.8	15.9	15.9	16.4	16.7	16.9	17.1	17.0	16.5	15.8
Prussia	16.0	16.3	16.4	16.3	16.1	16.1	16.1	16.0	16.5	16.8	16.9	17.0	17.1	16.6	16.0
Holland	13.8	14.0	14.0	14.2	14.4	14.6	14.4	14.8	15.0	14.8	14.6	14.8	15.2	15.4	15.2
Hungary	18.7	16.3	16.4	17.2	18.4	18.8	18.6	17.0	16.2	16.4	16.8	18.2	17.8	17.6	17.2
Italy	15.9	15.3	14.7	15.0	14.9	14.8	14.9	14.6	14.1	14.4	13.8	14.7	14.4	14.5	14.5
Japan	16.7	17.0	16.1	16.0	17.0	17.3	17.3	17.3	23.5	16.9	21.5	13.4	15.4	16.7	.....
New South Wales	15.1	14.1	14.3	14.8	13.6	12.9	12.5	12.8	13.4	13.7	13.5	13.9	14.8	15.4	15.0
New Zealand	11.9	11.9	12.2	12.1	12.5	12.4	12.3	11.9	13.7	13.7	13.8	14.6	15.3	15.7	16.0
Norway	12.2	12.5	13.0	13.2	12.7	12.9	12.8	13.0	13.4	13.4	14.0	14.3	13.8	13.2	12.8
Russia (European)	18.8	17.2	16.4	16.6	18.4	17.2	18.8	18.4	17.4	18.2	17.4	18.4	.....	.....	.....
Sweden	11.8	12.0	12.0	11.7	11.4	11.3	11.5	11.7	11.9	12.1	12.3	12.5	12.3	12.1	11.9
Switzerland	14.1	14.1	14.1	14.3	14.6	14.4	14.4	14.6	15.1	15.2	15.6	15.6	15.5	15.2	14.9
United Kingdom	13.5	14.1	14.5	14.6	14.5	13.9	14.2	14.3	15.0	15.2	15.4	15.6	15.1	15.1	15.1
England and Wales	14.4	15.0	15.5	15.6	15.4	14.7	15.0	15.0	15.7	16.0	16.2	16.5	16.0	15.9	15.9
Ireland	8.4	9.0	8.9	9.2	9.3	9.4	9.4	10.1	10.2	10.1	10.0	9.9	9.5	10.2	10.4
Scotland	12.8	13.3	13.7	13.9	14.1	13.2	13.3	13.5	14.2	14.4	14.8	15.0	14.6	14.0	14.1
United States:															
Massachusetts	18.2	18.8	18.6	18.9	19.2	19.1	16.9	18.5	18.1	17.6	16.5	17.2	17.4	17.3	17.5
Michigan	17.2	17.8	17.8	18.1	18.6	17.4	16.3	16.7	16.4	15.9	17.1	*18.3	*19.2	19.6	20.7
Rhode Island	18.7	17.3	18.4	18.5	19.1	18.7	17.4	18.2	17.0	15.6	15.8	16.2	18.4	17.6	18.5

*Returns vitiated by "excursion marriage" industry. Since 1898 the marriages recorded no longer relate exclusively to the inhabitants of Michigan.

NOTE.—Data for foreign countries taken from International Tables of the English Registrar General's Report.

MICHIGAN VITAL STATISTICS COMPARED WITH THOSE OF OTHER STATES AND COUNTRIES.

As stated in previous reports the significance of the vital rates of any state or country cannot be fully known until comparisons have been made with those of others. While the crude marriage, birth and death rates are not sufficient for the formation of absolutely reliable conclusions relative to the exact intensity of the marriage movement, or of the fecundity or sanitary conditions of the populations so measured, nevertheless the crude rates, taken without correction for dissimilar constitution of the population, must always form the first step in the comparative study of vital statistics.

Table 4.—Births registered per 1,000 living population in certain countries and states during the years 1888-1902. (Stillbirths excluded).

Country or state	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.
Austria	38.1	38.1	36.5	38.3	36.1	38.0	36.8	38.1	38.0	37.5	36.3	37.3	37.3	36.6	37.0
Belgium	29.4	29.4	29.0	30.0	28.9	29.6	29.0	28.6	29.0	29.0	28.6	28.8	29.0	29.4	28.4
Denmark	31.7	31.3	30.6	30.9	29.5	30.5	30.1	30.0	30.3	29.7	30.2	29.8	29.8	29.9	29.2
France	23.1	23.0	21.8	22.6	22.3	22.8	22.3	21.7	22.5	22.2	21.8	21.9	21.4	22.0	21.7
German Empire	36.6	36.4	35.7	37.0	35.7	36.8	35.9	36.1	36.3	36.0	36.1	35.8	35.6	35.7	35.1
Prussia	37.4	37.1	36.6	37.7	36.3	37.5	36.6	36.9	36.9	36.5	36.7	36.3	36.1	36.2	35.6
Holland	33.7	33.2	32.9	33.7	32.0	32.9	32.7	32.8	32.7	32.5	31.9	32.0	31.5	32.3	31.8
Hungary	43.8	43.7	40.3	42.3	40.4	42.6	41.5	41.8	40.5	40.3	37.7	39.3	39.3	37.8	38.8
Italy	37.5	38.3	35.8	37.2	36.2	36.5	35.5	34.9	34.8	34.7	33.5	33.9	33.0	32.6	33.3
Japan	30.0	30.5	28.5	26.8	29.4	28.5	28.9	29.5	30.0	30.9	31.3	31.4	31.4	32.7	.....
New South Wales	37.2	35.0	35.4	34.5	34.0	33.5	31.7	31.0	28.7	28.9	27.6	27.3	27.4	27.6	27.1
New Zealand	31.2	30.2	29.4	29.0	27.8	27.5	27.3	26.8	26.3	26.0	25.7	25.1	25.6	26.3	25.9
Norway	30.8	29.7	30.3	30.9	29.6	30.7	29.8	30.6	30.4	30.0	30.3	30.9	30.1	29.7	29.1
Russia (European)	49.9	48.8	48.2	48.8	47.2	47.0	48.7	49.4	49.7	49.5	48.7	49.0	.....	.....	.....
Sweden	28.8	27.7	28.0	28.3	27.0	27.4	27.1	27.5	27.2	26.7	27.1	26.4	27.0	27.0	26.5
Switzerland	27.7	27.6	26.6	28.2	27.7	27.9	27.3	27.3	28.1	28.3	28.5	29.0	28.6	29.1	28.7
United Kingdom	30.1	30.0	29.2	30.4	29.5	29.8	28.8	29.4	29.0	28.0	28.7	28.5	28.2	28.0	28.0
England and Wales	31.2	31.1	30.2	31.4	30.4	30.7	29.6	30.3	29.6	29.6	29.3	29.1	28.7	28.5	28.5
Ireland	22.8	22.7	22.3	23.1	22.5	23.0	23.0	23.3	23.7	23.5	23.3	23.1	22.7	22.7	23.0
Scotland	31.3	30.9	30.4	31.2	30.7	30.8	29.9	30.0	30.4	30.0	30.1	29.8	29.6	29.5	29.2
United States*	.....	.....	26.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	27.2	.....	.....
Connecticut	22.2	23.4	23.3	24.8	24.7	25.4	24.9	24.4	24.9	23.3	23.5	22.6	22.6	22.3	22.5
Massachusetts	26.0	26.2	25.8	27.5	28.1	28.1	27.4	27.0	28.3	28.0	27.3	25.7	26.2	25.1	24.6
Michigan	20.3	21.3	19.5	20.8	20.9	21.2	19.4	19.9	19.6	18.3	18.2	17.2	17.8	17.5	18.4
New Jersey	22.0	20.8	20.9	19.5	20.3	21.0	21.3	19.0	18.2	17.9	18.0	15.9	17.1	18.1	17.8
Rhode Island	24.2	24.1	24.7	20.5	25.2	26.5	26.6	25.7	27.3	26.8	25.9	25.6	25.9	25.8	25.1

*Imperfect data.

NOTE.—Data for foreign countries taken from International Tables of the English Registrar General's Report.

In Tables 3, 4 and 5, corrected according to the international statistics published in the last report of the Registrar-General of England, will be found data by means of which the vital rates of Michigan for the past fifteen years may be compared with those of various European countries, and with certain states in this country, as well as with those of New Zealand and New South Wales, representative of the vital statistics of Australia. Some statistics for Japan have also been added from the reports of the Imperial Bureau of Statistics of that country, and are of especial interest as comparing the movement of population of an oriental country with the American, the European and Australian data.

Table 5.—Deaths registered per 1,000 living population in certain countries and states during the years 1888-1902. (Stillbirths excluded).

Country or state.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.
Austria	29.4	27.5	29.3	28.1	28.7	27.2	27.9	27.6	26.3	25.6	24.9	25.6	25.3	24.0	24.7
Belgium	20.3	19.8	20.8	21.2	21.8	20.3	18.6	19.5	17.5	17.3	17.6	18.8	19.3	17.2	17.3
Denmark	19.7	18.6	19.0	20.0	19.4	18.8	17.4	16.8	15.6	16.5	15.5	17.3	16.9	15.8	14.6
France	21.9	20.7	22.8	22.9	22.8	22.5	21.2	22.2	20.0	19.4	20.9	21.1	21.9	20.1	19.5
German Empire	23.8	23.7	24.3	23.4	24.1	24.6	22.3	22.1	20.8	21.3	20.5	21.5	22.1	20.7	19.4
Prussia	22.8	23.2	24.0	22.9	23.4	24.2	21.8	21.8	20.7	20.9	20.0	21.4	21.8	20.5	19.2
Holland	20.4	20.1	20.5	20.7	21.0	19.2	18.5	18.6	17.2	16.9	17.0	17.1	17.8	17.2	16.3
Hungary	32.0	29.9	32.4	33.1	35.1	31.2	30.5	29.7	28.9	28.5	28.0	27.2	26.9	25.4	27.0
Italy	27.5	25.6	26.3	26.1	26.2	25.2	25.0	25.0	24.1	21.9	22.9	21.9	23.8	22.0	22.1
Japan	19.0	20.2	20.4	21.0	21.6	22.7	20.1	20.2	21.4	20.3	20.4	21.1	20.3	20.3	.....
New South Wales	13.9	13.9	12.9	14.3	12.2	13.3	12.4	11.9	12.5	11.0	12.7	11.9	11.2	11.7	11.9
New Zealand	9.4	9.4	9.7	10.3	10.1	10.2	10.2	9.9	9.1	9.1	9.8	10.2	9.4	9.8	10.5
Norway	16.9	17.4	17.9	17.5	17.8	16.3	16.9	15.7	15.2	15.3	15.3	16.9	15.9	14.9	13.9
Russia (European)	32.3	34.5	35.7	34.6	42.1	33.1	34.0	35.0	32.8	31.4	33.2	31.0	.....	.....	.....
Sweden	16.0	16.0	17.1	16.8	17.9	16.8	16.4	15.2	15.6	15.4	15.1	17.0	16.8	16.1	15.4
Switzerland	19.9	20.3	20.9	20.6	19.0	20.1	20.1	19.2	17.8	17.7	18.3	17.7	19.3	18.0	17.2
United Kingdom	18.1	18.1	19.4	20.0	19.0	19.0	16.8	18.7	16.9	17.6	17.7	18.2	18.4	17.1	16.5
England and Wales	18.1	18.2	19.5	20.2	19.0	19.2	16.6	18.7	17.1	17.4	17.5	18.2	16.2	16.9	16.2
Ireland	17.9	17.4	18.2	18.4	19.4	18.0	18.2	18.5	16.7	18.5	18.2	17.7	19.6	17.8	17.5
Scotland	18.0	18.4	19.7	20.7	18.5	19.3	17.1	19.4	16.6	18.4	18.0	18.1	18.5	17.9	17.2
United States*	.....	.....	19.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	17.8	.....	.....
Connecticut	17.1	17.0	18.3	19.2	19.0	18.6	16.8	17.8	17.5	15.7	15.8	15.7	18.0	16.2	15.2
Massachusetts	19.9	19.2	19.4	19.7	20.9	20.5	19.1	19.0	19.3	18.1	17.5	17.4	18.2	16.8	16.2
Michigan	10.1	9.3	9.7	9.9	9.6	9.5	8.9	9.5	9.0	8.2	†12.0	13.6	13.4	13.4	12.7
New Jersey	17.0	19.0	19.8	19.5	21.6	19.9	19.1	18.3	17.9	16.9	15.1	16.7	16.6	16.5	15.9
Rhode Island	20.4	19.0	20.1	18.6	20.1	19.6	19.1	19.6	19.1	17.6	16.7	17.6	20.6	18.2	17.8

*Registration area only.
†New registration law for deaths in effect in Michigan for 1898.

NOTE.—Data for foreign countries taken from International Tables of the English Registrar General's Report.

RETURNS COMPARED WITH POPULATION, BY COUNTIES, 1902.

In Table 3 estimated populations are given for each of the counties of the State for the year 1902. In estimating populations what is known as the "arithmetical method" has been employed, as in previous years, both for the *Michigan Monthly Bulletin of Vital Statistics* and for the annual registration reports. While all methods of estimating populations are more or less liable to error, especially when there are long intervals between census enumerations, investigation has proven that the method here used accords more closely with the actual enumerated results than any other method, while at the same time it is readily applied, and is one of the most simple methods.

The numbers of deaths, marriages, divor[illegible]nd births returned from

each county are also shown and the corresponding rates per thousand population for the year. Following the usual custom, the marriage and divorce rates are stated, not as so many marriages and divorces per thousand population, but as *persons married* and *persons divorced* per thousand population.

Persons married should properly be compared, not with the total population, but with the number of unmarried persons of marriageable age. In like manner, divorce rates should be based on the number of married persons in the population affording them, and the birth rates should be based upon the number of married couples (neglecting the small factor of illegitimacy), or, as is usually more convenient, by referring to the number of women of childbearing age in the community.

These conclusions are given so that the mistake may not be made of accepting the vital rates given in these tables as absolutely conclusive and hence basing erroneous deductions thereon. Such rates are necessary and form the first step in any statistical investigation of this character, but they require to be fully analyzed before absolutely reliable conclusions can be drawn.

The death rates shown in Table 6 do not, as a rule, vary very widely from the State average of 12.7 per thousand population.

The marriage rate for Berrien county, 59.8, is worthless because of the large number of foreign marriages, including mostly residents of Chicago, who take advantage of the proximity of St. Joseph during the summer months.

Table 6.—Deaths, marriages, divorces and births in Michigan by counties, for the 1902, with rates per 1,000 estimated population.

State and counties.	Estimated population of Michigan 1902.*	Number of deaths registered, 1902.	Number of marriages registered, 1902.	Number of divorces registered, 1902.	Number of births registered, 1902.	Rates per 1,000 estimated population, 1902.			
						Deaths.	Persons married.	Persons divorced.	Bi
STATE.....	2,475,499	31,472	25,653	2,828	45,546	12.7	20.7	2.3	
Alcona.....	5,687	45	60	3	106	7.9	21.1	1.1	
Alger.....	6,202	74	56	4	78	11.9	18.1	1.3	
Allegan.....	38,880	475	332	42	615	12.2	17.1	2.2	
Alpena.....	19,001	171	195	16	425	9.0	20.5	1.7	
Antrim.....	16,111	168	142	25	282	10.4	17.6	3.1	
Arenac.....	10,003	80	81	4	182	8.0	16.2	0.8	
Baraga.....	4,712	40	42	1	75	8.5	17.8	0.4	
Barry.....	22,269	267	234	46	291	12.0	21.0	4.1	
Bay.....	62,913	745	584	54	1,516	11.8	18.6	1.7	
Benzie.....	10,238	108	106	18	219	10.5	20.7	3.5	
Berrien.....	49,278	553	1,474	77	570	11.2	59.8	3.1	
Branch.....	27,104	381	258	40	385	14.1	19.0	3.0	
Calhoun.....	51,139	763	600	89	658	14.9	23.5	3.5	
Cass.....	20,453	287	226	33	238	14.0	22.1	3.2	
Charlevoix.....	15,117	163	150	14	259	10.8	19.8	1.9	
Cheboygan.....	16,386	181	142	9	333	11.0	17.3	1.1	
Chippewa.....	21,732	339	266	15	391	15.6	24.5	1.4	
Clare.....	8,775	83	78	8	166	9.5	17.8	1.8	
Clinton.....	25,172	298	228	21	383	11.8	18.1	1.7	
Crawford.....	3,399	48	31	2	55	14.1	18.2	1.2	
Delta.....	25,458	323	238	18	592	12.7	18.7	1.4	
Dickinson.....	18,413	227	242	9	634	12.3	26.3	1.0	
Eaton.....	31,187	401	346	56	401	12.9	22.2	3.6	
Emmet.....	16,912	232	213	16	288	13.7	25.2	1.9	
Genesee.....	42,279	562	451	75	567	13.3	21.3	3.5	
Gladwin.....	7,583	60	67	3	129	7.9	17.7	0.8	
Gogebic.....	17,018	307	232	14	447	18.0	27.3	1.6	
Grand Traverse..	21,841	297	248	37	289	13.6	22.7	3.4	
Gratiot.....	30,213	355	376	74	469	11.7	24.9	4.9	
Hillsdale.....	29,851	377	300	41	340	12.6	20.1	2.7	
Houghton.....	68,344	943	698	21	2,612	13.8	20.4	0.6	
Huron.....	34,554	336	284	11	732	9.7	16.4	0.6	
Ingham.....	41,713	560	456	51	475	13.4	21.9	2.4	
Ionia.....	34,478	428	361	47	455	12.4	20.9	2.7	
Iosco.....	10,393	99	80	3	223	9.5	15.4	0.6	
Iron.....	8,957	84	108	6	266	9.4	24.1	1.3	
Isabella.....	23,445	265	210	27	444	11.3	17.9	2.3	
Jackson.....	47,672	642	517	81	797	13.5	21.7	3.4	
Kalamazoo.....	47,036	638	531	88	515	13.6	22.6	3.7	
Kalkaska.....	7,371	77	98	14	87	10.4	26.6	3.8	
Kent.....	134,101	1,734	1,580	239	1,938	12.9	23.6	3.6	
Keweenaw.....	3,882	34	17	0	117	8.8	8.8	.....	
Lake.....	4,978	46	52	8	99	9.2	20.9	3.2	
Lapeer.....	27,345	376	268	21	382	13.8	19.6	1.5	
Leelanau.....	10,691	117	84	5	226	10.9	15.7	0.9	
Lenawee.....	48,752	642	473	58	543	13.2	19.4	2.4	
Livingston.....	19,156	225	183	23	226	11.7	19.1	2.4	
Luce.....	3,433	64	30	1	27	18.6	17.5	0.6	
Mackinac.....	7,975	83	60	4	92	10.4	15.0	1.0	
Macomb.....	33,169	468	253	34	517	14.1	15.3	2.1	
Manistee.....	27,514	311	218	15	628	11.3	15.8	1.1	
Marquette.....	40,624	512	362	12	1,336	12.6	17.8	0.6	
Mason.....	19,247	184	154	4	377	9.6	16.0	0.4	
Mecosta.....	20,454	225	197	19	325	11.0	19.3	1.9	
Menominee.....	26,755	268	400	8	644	10.0	29.9	0.6	

*Population estimated by average annual increase as shown by State Census of 1904 over U. S. census of 1900.

Table 6.—Concluded.—Deaths, marriages, divorces and births in Michigan by counties, for the year 1902, with rates per 1,000 estimated population.

State and counties.	Estimated population of Michigan 1902.*	Number of deaths registered, 1902.	Number of marriages registered, 1902.	Number of divorces registered, 1902.	Number of births registered, 1902.	Rates per 1,000 estimated population, 1902.			
						Deaths.	Persons married.	Persons divorced.	Births.
Midland	14,538	147	133	10	306	10.1	18.3	1.4	21.0
Missaukee	9,787	85	81	14	198	8.7	16.6	2.9	20.2
Monroe	32,838	369	504	25	573	11.2	30.7	1.5	17.4
Montcalm	33,007	377	336	54	427	11.4	20.4	3.3	12.9
Montmorency	3,375	44	21	3	76	13.0	12.4	1.8	22.5
Muskegon	37,205	415	361	40	652	11.2	19.4	2.2	17.5
Newaygo	18,047	203	168	19	221	11.2	18.6	2.1	12.2
Oakland	45,269	580	357	32	512	12.8	15.8	1.4	11.3
Oceana	17,181	161	162	18	276	9.4	18.9	2.1	16.1
Ogemaw	8,443	80	72	7	137	9.5	17.1	1.7	16.2
Ontonagon	6,682	93	74	3	206	13.9	22.1	0.9	30.8
Osceola	18,246	207	179	13	343	11.3	19.6	1.4	18.8
Oscoda	1,678	10	12	0	29	6.0	14.3	.....	17.3
Otsego	6,707	75	67	6	148	11.2	20.0	1.8	22.1
Ottawa	40,933	419	382	21	771	10.2	18.7	1.0	18.8
Presque Isle	9,847	92	80	10	204	9.3	16.2	2.0	20.7
Roscommon	1,759	8	15	1	29	4.5	17.1	1.1	16.5
Saginaw	83,447	995	845	102	1,814	11.9	20.3	2.4	21.7
St. Clair	55,433	728	540	82	825	13.1	19.5	3.0	14.9
St. Joseph	23,559	302	227	26	310	12.8	19.3	2.2	13.2
Sanilac	34,961	376	326	18	773	10.8	18.6	1.0	22.1
Schoolcraft	8,259	96	53	4	160	11.6	12.8	1.0	19.4
Shiawassee	33,788	413	345	68	421	12.2	20.4	4.0	12.5
Tuscola	35,926	417	347	32	592	11.6	19.3	1.8	16.5
Van Buren	34,120	364	332	48	366	10.7	19.5	2.8	10.7
Washtenaw	47,268	660	353	37	518	14.0	14.9	1.6	11.0
Wayne	367,810	5,778	3,424	444	8,880	15.7	18.6	2.4	24.1
Wexford	18,031	207	185	27	313	11.5	20.5	3.0	17.4

* Population estimated by average annual increase as shown by State census of 1904 over U. S. census of 1900.

Table 7.—Deaths, marriages, divorces and births in Michigan, by counties, for the years 1901-1902; showing also the increase (or decrease) of the number registered for 1902 as compared with that of the preceding year. (Stillbirths included in births but not in deaths).

State and counties.	Deaths.			Marriages.			Divorces.			Births.		
	Number in 1902.	Number in 1901.	Increase or decrease.*	Number in 1902.	Number in 1901.	Increase or decrease.*	Number in 1902.	Number in 1901.	Increase or decrease.*	Number in 1902.	Number in 1901.	Increase or decrease.*
State	31,472	32,834	—1,362	25,653	24,079	1,574	2,828	2,448	380	45,546	43,221	2,325
Alcona	45	63	—18	60	43	17	3	1	2	106	81	25
Alger	74	48	26	56	39	17	4	6	—2	78	101	—23
Allegan	475	496	—21	332	302	30	42	33	9	615	574	41
Alpena	171	210	—39	195	160	35	16	8	8	425	472	—47
Antrim	168	209	—41	142	175	—33	25	15	10	282	219	63
Arenac	80	120	—40	81	101	—20	4	1	3	182	200	—18
Baraga	40	60	—20	42	31	11	1	1	0	75	104	—29
Barry	267	267	0	234	219	15	46	37	9	291	319	—28
Bay	745	782	—37	584	560	24	54	40	14	1,516	1,362	154
Benzie	108	136	—28	106	87	19	18	14	4	219	219	0
Berrien	553	659	—106	1,474	1,490	—16	77	57	20	570	572	—2
Branch	381	381	0	258	298	—40	40	30	10	385	337	48
Calhoun	763	736	27	600	493	107	89	83	6	658	623	35
Cass	287	269	18	226	201	25	33	31	2	238	235	3
Charlevoix	163	176	—13	150	130	20	14	10	4	259	247	12
Cheboygan	181	201	—20	142	143	—1	9	14	—5	333	291	42
Chippewa	339	313	26	266	271	—5	15	13	2	391	399	—8
Clare	83	90	—7	78	83	—5	8	9	—1	166	160	6
Clinton	298	337	—39	228	243	—15	21	22	—1	383	371	12
Crawford	48	26	22	31	27	4	2	2	0	55	36	19
Delta	323	297	26	238	239	—1	18	11	7	592	656	—64
Dickinson	227	253	—26	242	214	28	9	8	1	634	618	16
Eaton	401	403	—2	346	357	—11	56	60	—4	401	385	16
Emmet	232	214	18	213	188	25	16	20	—4	288	271	17
Genesee	562	572	—10	451	401	50	75	61	14	567	471	96
Gladwin	60	63	—3	67	68	—1	3	6	—3	129	166	—37
Gogebic	307	257	50	232	221	11	14	5	9	447	558	—111
Grand Traverse	297	342	—45	248	229	19	37	32	5	289	285	4
Gratiot	355	361	—6	376	331	45	74	35	39	469	379	90
Hillsdale	377	422	—52	300	317	—17	41	41	0	340	312	28
Houghton	943	892	51	698	757	—59	21	14	7	2,612	2,682	—70
Huron	336	373	—37	284	265	19	11	14	—3	732	818	—86
Ingham	560	542	18	456	395	61	51	27	24	475	431	44
Ionia	428	464	—36	361	382	—21	47	42	5	455	408	47
Iosco	99	135	—36	80	71	9	3	4	—1	223	224	—1

Iron	84	105	−21	108	81	27	6	5	1	266	215	51
Isabella	265	243	22	210	218	−8	27	25	2	444	455	−11
Jackson	642	615	27	517	508	9	81	83	−2	797	696	101
Kalamazoo	638	740	−102	531	495	36	88	90	−2	515	557	−42
Kalkaska	77	88	−11	98	78	20	14	16	−2	87	116	−29
Kent	1,734	1,769	−35	1,580	1,398	182	239	207	32	1,938	1,924	14
Keweenaw	34	41	−7	17	25	−8	0	0	0	117	107	10
Lake	46	58	−12	52	50	2	8	5	3	99	100	−1
Lapeer	376	415	−39	268	276	−8	21	23	−2	382	342	40
Leelanau	117	122	−5	84	79	5	5	6	−1	226	159	67
Lenawee	642	704	−62	473	423	50	58	61	−3	543	565	−22
Livingston	225	252	−27	183	163	20	23	15	8	226	237	−11
Luce	64	43	21	30	34	−4	1	3	−2	27	74	−47
Mackinac	83	82	1	60	73	−13	4	2	2	92	121	−29
Macomb	468	483	−15	253	265	−12	34	29	5	517	468	49
Manistee	311	305	6	218	207	11	15	15	0	628	470	158
Marquette	512	507	5	362	366	−4	12	8	4	1,336	1,429	−93
Mason	184	255	−71	154	157	−3	4	10	−6	377	376	1
Mecosta	225	275	−50	197	174	23	19	18	1	325	332	−7
Menominee	268	294	−26	400	322	78	8	8	0	644	585	59
Midland	147	193	−46	133	125	8	10	8	2	306	252	54
Missaukee	85	86	−1	81	84	−3	14	10	4	198	220	−22
Monroe	369	418	−49	504	410	94	25	22	3	573	543	30
Moncalm	377	419	−42	336	308	28	54	37	17	427	442	−15
Montmorency	44	32	12	21	26	−5	3	6	−3	76	32	44
Muskegon	415	446	−31	361	334	27	40	44	−4	652	691	−39
Newaygo	203	209	−6	168	161	7	19	23	−4	221	225	−4
Oakland	580	664	−84	357	298	59	32	35	−3	512	540	−28
Oceana	161	211	−50	162	146	16	18	27	−9	276	276	0
Ogemaw	80	99	−19	72	69	3	7	3	4	137	113	24
Ontonagon	93	83	10	74	51	23	3	4	−1	206	173	33
Osceola	207	185	22	179	170	9	13	17	−4	343	334	9
Oscoda	10	6	4	12	12	0	0	1	−1	29	21	8
Otsego	75	83	−8	67	73	−6	6	0	6	148	121	27
Ottawa	419	487	−68	382	362	20	21	15	6	771	718	53
Presque Isle	92	108	−16	80	80	0	10	5	5	204	227	−23
Roscommon	8	27	−19	15	13	2	1	7	−6	29	40	−11
Saginaw	995	1,091	−96	845	804	41	102	96	6	1,814	1,636	178
St. Clair	728	770	−42	540	483	57	82	54	28	825	871	−46
St. Joseph	302	356	−54	227	183	44	26	29	−3	310	286	24
Sanilac	376	349	27	326	296	30	18	10	8	773	710	63
Schoolcraft	96	113	−17	53	83	−30	4	6	−2	160	193	−33
Shiawassee	413	457	−44	345	351	−6	68	57	11	421	417	4
Tuscola	417	509	−92	347	316	31	32	31	1	592	548	44
Van Buren	364	495	−131	332	332	0	48	44	4	366	391	−25
Washtenaw	660	655	5	353	340	13	37	45	−8	518	516	2
Wayne	5,778	5,503	275	3,424	3,066	358	444	350	94	8,880	7,439	1,441
Wexford	207	215	−8	185	180	5	27	26	1	313	332	−19

*Decrease indicated by the minus sign (−).

COMPARISON OF RETURNS FOR THE YEARS 1901-1902.

In Table 7 the returns of deaths, marriages, divorces and births are shown for each county for the past two years, and also the increase or decrease of the returns of the year 1902 as compared with those of the preceding year.

The returns for 1902 show a decrease of 1,362 deaths in the State from 1901. There were 58 counties showing a decrease in the number of deaths, 23 showing an increase and 2 showing neither increase or decrease.

The number of marriages increased 1,574. Quite a large number of counties showed a decreased number of marriages for the year as compared with the preceding one. The largest amount of decrease occurred in the counties of Antrim, Branch, Houghton and Schoolcraft.

The number of divorces also showed a considerable increase for 1902 over 1901, but this may have been due in part to the greater accuracy of county clerks in making returns for the latter year. It is probable that a portion of this increase was in fact due to a higher divorce rate, but it will require comparisons of quite a large number of years to determine this fact conclusively.

Births increased 2,325 for the year and the increase was quite uniformly distributed over the State, 47 counties showing an increase. The largest amounts of increase occurred in the counties of Bay, Jackson, Manistee and Saginaw, and the largest amount of decrease in the county of Gogebic.

PART II.---DEATHS AND CAUSES OF DEATHS IN MICHIGAN DURING THE YEAR 1902.

The total number of deaths returned to the Department of State during the year 1902, under the law requiring certificates of death and burial permits, was 31,472, exclusive of stillbirths, of which 1,793 were also returned on certificates of deaths.

In Table 1, Part I, is presented a statement of the deaths occurring each month of the year, together with the daily averages.

The largest number of deaths occurring in any month was during March, with 2,982, but the month of largest *daily average* was April, having 2,894 deaths, but with a daily average of 96.5. June furnished the least number of deaths with a daily average of 74.8, 2,244 deaths being registered for that month.

Table 2, Part I, shows the deaths and death rates for previous years in comparison with 1902. Under the International classification, which has now come into general use, stillbirths are excluded from deaths being relegated to a separate class.

Among other classes of vital statistics presented in Table 6, the distribution of deaths through the various counties of the State is also shown, the death rates there shown being based upon the estimated populations. In comparing the death rates of the several counties, as

shown in this Table, due attention should be given to the age and sex distribution, which greatly affects mortality rates.

As in previous reports, this portion is divided into two sections, viz., Section I, The Incidence of Deaths, by months, sex, age, geographical location, etc., and Section II, The Causes of Death. It should not be understood that the second division fails to study the factors mentioned in the preceding group, but its distinctive feature is that it classifies them with reference to particular diseases instead of simply showing their relation to total mortality.

SECTION I.—INCIDENCE OF DEATHS IN MICHIGAN DURING THE YEAR 1902.

The tables in this section contain statements in regard to the incidence of deaths in the State during the year 1902, arranged to show the following particulars: (1) Deaths from all causes by months; (2) number and proportion of each sex among the decedents; (3) deaths by ages of decedents; (4) geographical distribution of deaths; and (5) location as urban and rural. Herewith is presented a brief statement of the more prominent facts contained in this section.

Following are some of the most important facts relative to the occurrence of deaths from all causes during the year 1902:

Total number of deaths returned, 1902	31,472
Death rate per 1,000 estimated population, 1902	12.7

In addition to the above number of deaths, there were also 1,793 stillbirths included among the returns of deaths but no longer compiled with them.

Stillbirths registered, 1902	1,793
Stillbirths rate per 1,000 estimated population	0.7

As to the monthly incidence of deaths, we have:

More than average mortality, 1902	January, February, March, April, May, December
Less than average mortality, 1902	June, July, August, September, October, November
Maximum mortality, 1902	March, 2,982 deaths or 14.3 per 1,00 estimated population
Minimum mortality, 1902	June, 2,244 deaths or 11.7 per 1,000 estimated population

By sex, there were:

Males dying in Michigan, 1902	17,040 or 13.4 per 1,000 estimated male inhabitants
Females dying in Michigan, 1902	14,432 or 12.0 per 1,000 estimated female inhabitants
Ratio of death rate of males to death rate of females, 1902	118 per cent

By age periods, there were, exclusive of stillbirths, deaths as follows:

Under 1 year of age	5,949, or 18.9 per cent
Under 5 years of age	8,162, or 25.9 per cent
Aged 5 to 14 years	1,482, or 4.7 per cent
Aged 15 to 64 years	12,527, or 39.8 per cent
Aged 65 years and over	9,201, or 29.2 per cent

By geographical sections, we have the following:

Deaths in the Upper Peninsula	3,487, or 13.0 per 1,000 estimated population
Northern counties	3,278, or 10.6 per 1,000 estimated population
Central counties	5,017, or 11.3 per 1,000 estimated population
Southern counties	19,690, or 13.6 per 1,000 estimated population

Distinguished as urban and rural, there were the following:

Deaths in cities.....13,901, or 44.2 per cent; death rate 13.9 per 1,000 estimated population
Deaths in country.....17,571, or 55.8 per cent; death rate 11.9 per 1,000 estimated population

DEATHS BY MONTHS AND QUARTERS, 1902.

The distribution of deaths by months and quarters for the year is shown in Table 8, the mortality being distributed through the months about as evenly as it was in the preceding year. The maximum monthly rate, 14.3 was in the month of April, while in the preceding year it was 16.4 for February. March had the largest number of deaths for any month during the year, 2,982, while the largest daily average was for the month of April. The month of least mortality was June, with only 2,244 deaths recorded, equivalent to a rate of 11.1 per 1,000 estimated population. The average number of deaths per month was 2,623.

For convenience of comparison in studying the comparative mortality by months, it is useful to use the scale on which the average number of deaths per month is taken as 100. Employing this method the months stand in the following order: The maximum being February and April, 112; March, 111; January, 107; May, 102; August, 94; July, 93; November, 92; October, 89; and June, the minimum, 87. An interesting feature is shown in this table, viz., the comparison of the death rates of the months, as based on the final compilation of returns after all delinquent districts have reported, with the original rates as printed in the *Monthly Bulletins.*

Table 8.—Deaths in Michigan by months and quarters, 1902. (Stillbirths excluded).

Year and months.	Number of deaths.		Average number per day.	Rank.	Death rate per 1,000 estimated population.	Death rates as originally printed in *Bulletin.**	Increase for delayed returns.
	By months.	By quarters.					
Year 1902	31,472	31,472	.....	1,200	12.7	12.6	0.1
January	2,863	8,540	92.4	107	13.6	13.5	0.1
February	2,695		96.3	112	14.2	14.0	0.2
March	2,982		96.2	111	14.2	14.1	0.1
April	2,894	7,873	96.5	112	14.3	14.1	0.2
May	2,735		88.2	102	13.0	12.8	0.2
June	2,244		74.8	87	11.1	11.1	0.0
July	2,500	7,590	80.6	93	11.9	11.8	0.1
August	2,506		80.8	94	11.9	11.8	0.1
September	2,584		86.1	100	12.7	12.6	0.1
October	2,389	7,469	77.1	89	11.4	11.4	0.0
November	2,381		79.4	92	11.7	11.7	0.0
December	2,699		87.1	101	12.9	12.8	0.1
Average	2,623	7,868	86.2	100	.....	.....	.....

*Death rates as originally printed in the *Bulletin* are based upon estimated *reporting* population according to censuses of 1900 and 1894, while the rates for the report are based upon *actual* estimated population according to State census of 1904 and U. S. census of 1900.

By referring to Table 9, it will be seen that the total number of deaths for the year recorded in the *Monthly Bulletins*, 31,062, was 410 less than the total number of deaths, 31,472, returned ultimately, and compiled in this registration report. Nevertheless, in the final report as compared with the original returns, there is but slight variation in the death rate for the year, although the monthly differences are somewhat more numerous than usual. They affect the decimal part of the rates only, and hence are well within the limit of accuracy of the statistics generally.

Table 9.—Delayed returns of deaths by months, 1902. (Stillbirths excluded).

Deaths returned and published in—	Total deaths, 1902.	Months of death.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Annual registration report	31,472	2,863	2,695	2,982	2,894	2,735	2,244	2,500	2,506	2,584	2,389	2,381	2,699
Monthly Bulletins	†31,062	2,824	2,665	2,959	2,850	2,686	2,234	†2,447	2,466	2,548	2,360	2,357	2,666
Delayed returns	410	39	30	23	44	49	10	53	40	36	29	24	33
Per cent*	1.3	1.4	1.1	0.8	1.5	1.8	0.4	2.1	1.6	1.4	1.2	1.0	1.2

*Per cent of deficiency of *Bulletin* returns as compared with final figures of report (=100%.)
†For the month of July an error was made in the total deaths as published in the *Bulletin*. The figures representing the total number of deaths should have been given as 2,447 instead of 2,347. Correction is made for this table.

MORTALITY OF THE SEXES IN MICHIGAN, 1902.

The distribution of deaths by sex during the year 1902 is shown in Table 10, together with a comparison with the estimated population of each sex, and also of the results of the preceding years, 1890-1902, with the ten year average, 1893-1902.

Excluding stillbirths, there were 17,040 male decedents and 14,432 female decedents during the year. The respective death rates were 13.4 and 12.0 per thousand population. These death rates are strictly comparable only with the years since 1898, as the previous years, 1890-97, were collected under the very imperfect law that was then in effect. However, the relative number of males per 100 deaths of females for the year, 118.0, is fully comparable with the corresponding ratios for the preceding years, and the relative male mortality shown in the last column of the table, 112 per cent, which is the ratio of the death rates of males to the death rates of the females taken as 100 per cent, is also correctly shown.

As usual, the male mortality somewhat exceeds the female mortality, the number being 2.6%.

Table 10.—Deaths and death rates in Michigan by sex, 1890-1902, with 10 year average. (Stillbirths excluded).

Year.	Population.		Number of deaths.*		Rates per 1,000 estimated population.		Deaths of males to 100 deaths of females.	Relative male mortality.†
	Males.	Females.	Males.	Females.	Males.	Females.		
1890‡	1,091,780	1,002,109	11,801	9,771	10.8	9.8	120.7	110
1891	1,108,970	1,021,857	11,908	9,998	10.7	9.8	119.1	109
1892	1,126,160	1,041,605	11,837	9,809	10.5	9.4	120.7	112
1893	1,143,350	1,061,353	11,772	10,142	10.3	9.6	116.1	107
1894‡	1,160,540	1,081,101	11,159	9,744	9.6	9.0	114.5	107
1895	1,177,730	1,100,849	12,161	10,510	10.3	9.5	115.7	108
1896	1,194,920	1,120,597	11,807	10,119	9.9	9.0	116.7	110
1897	1,212,110	1,140,345	10,294	8,829	8.5	7.7	116.6	110
1898	1,229,300	1,160,093	15,624	13,809	12.7	11.9	113.1	107
1899	1,246,490	1,179,841	18,025	15,605	14.5	13.2	115.5	110
1900‡	1,248,905	1,172,077	17,948	15,772	14.4	13.5	113.8	107
1901	1,263,632	1,187,240	17,540	15,273	13.9	12.9	114.8	108
1902	1,273,780	1,201,719	17,040	14,432	13.4	12.0	118.0	112
Average, 1893-1902.	1,215,076	1,140,522	14,337	12,424	11.8	10.9	115.4	108

*Does not include deaths of unknown sex.
†Ratio of *death rates* (not deaths) of males to death rates of females. This comparison eliminates the unequal distribution of the sexes in the population.
‡Census years.

DEATHS BY SEXES AND AGE PERIODS, 1902.

The data showing the general distribution of deaths returned for the year 1902, distinguishing the sexes and age periods of the decedents is shown in Table 11. Stillbirths are not included in this table as formerly. The relations of the number of deaths at each year under five and at quinquennial age periods up to the age of eighty years are given. It will be noted that 18.9 per cent of the total number of deaths in the State were under one year of age, and 25.9 per cent in the age period under five years. In other words over one-fourth of the total number of deaths recorded for the year were those of children under five years of age, the percentage of males being somewhat higher than that for females.

Comparison of the percentage of deaths of males and females to the total number of deaths, exclusive of unknown sex, shows that for most periods of age the percentage of males is the larger. Exceptions are for the ages fifteen to thirty-four, corresponding to the child-bearing age of females, during which the number of deaths recorded is greater than those of males.

Table 11.—Deaths in Michigan by sex and age periods, 1902. (Stillbirths excluded.)

Ages.	Number of deaths, 1902.			Per cent of deaths at each age to total at all ages.			Per cent of deaths of each sex to total of both sexes.*				Excess of the sexes by number.		Males to 100 females.
									Excess.				
	Total.	Males.	Females.	Total.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
All ages	31,472	17,040	14,432	100.0	100.0	100.0	54.1	45.9	8.2	.....	2,608	.....	.....
Under 1 year	5,949	3,377	2,572	18.9	19.7	17.8	56.8	43.2	13.6	.....	805	.....	131
1 year	1,108	587	521	3.5	3.4	3.6	53.0	47.0	6.0	.....	66	.....	113
2 years	506	271	235	1.6	1.6	1.6	53.6	46.4	7.2	.....	36	.....	115
3 years	345	188	157	1.1	1.1	1.1	54.5	45.5	9.0	.....	31	.....	120
4 years	254	139	115	0.8	0.8	0.8	54.7	45.3	9.4	.....	24	....	121
Under 5 years	*8,162*	*4,562*	*3,600*	*25.9*	*26.8*	*24.9*	*55.9*	*44.1*	*11.8*	.....	*962*	.....	*127*
5 to 9 years	884	478	406	2.8	2.8	2.8	54.1	45.9	8.2	.....	72	.....	118
10 to 14 years	598	299	299	1.9	1.8	2.1	50.0	50.0	0.0	.....	.....	.....	100
15 to 19 years	1,011	493	518	3.2	2.9	3.6	48.8	51.2	.....	2.4	.....	25	95
20 to 24 years	1,289	617	672	4.1	3.6	4.7	47.9	52.1	.....	4.2	....	55	92
25 to 29 years	1,194	586	608	3.8	3.4	4.2	49.1	50.9	.....	1.8	.....	22	96
30 to 34 years	1,051	503	548	3.3	3.0	3.8	47.9	52.1	.....	4.2	.....	45	92
35 to 39 years	1,147	574	573	3.6	3.4	4.0	50.0	50.0	.....	0.0	1	.....	100
40 to 44 years	1,204	651	553	3.8	3.8	3.8	54.1	45.9	8.2	.....	98	.....	118
45 to 49 years	1,174	665	509	3.7	3.9	3.5	56.6	43.4	13.2	.....	156	.....	131
50 to 54 years	1,280	754	526	4.1	4.4	3.6	58.9	41.1	17.8	.....	228	.....	143
55 to 59 years	1,436	816	620	4.6	4.8	4.3	56.8	43.2	13.6	.....	196	....	132
60 to 64 years	1,741	927	814	5.5	5.4	5.6	53.2	46.8	6.4	.....	113	.....	114
65 to 69 years	2,123	1,177	946	6.7	6.9	6.6	55.4	44.6	10.8	.....	231	.....	124
70 to 74 years	2,604	1,212	992	8.3	7.1	6.9	46.5	38.1	8.4	.....	220	.....	122
75 to 79 years	2,090	1,149	941	6.6	6.7	6.5	55.0	45.0	10.0	.....	208	.....	122
80 years and over	2,784	1,502	1,282	8.8	8.8	8.9	54.0	46.0	8.0	.....	220	.....	117
Unknown ages	100	75	25	0.3	0.4	0.2	75.0	25.0	50.0	.....	50	.....	300

*Unknown sex excluded.

In order to obtain a more satisfactory statement of the mortality of the sexes by ages, Table 12 has been prepared, showing the estimated populations for each sex and age.

The total death rate for both sexes, 12.7 per 1,000 estimated population is based on the total estimated population for the State for the year. In like manner the rates for individual ages are based on partial populations for these ages estimated in the same manner as the total population.

Considered with reference to the sex distribution of the population

the death rate of males for the year, 13.4 per thousand, as compared with the death rate of females for the year, 12.0 per thousand represents a relative male mortality of 112 per cent.

Table 12.—Deaths and death rates in Michigan by age periods and sex, 1902. (Stillbirths excluded).

Ages.	Estimated population, 1902.			Deaths, 1902.			Death rates per 1,000 estimated population of same age and sex, 1902.			Relative male mortality.*
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	
All ages	2,475,499	1,273,780	1,201,720	31,472	17,040	14,432	12.7	13.4	12.0	112
Under 1 year	55,846	28,335	27,512	5,949	3,377	2,572	106.5	119.2	93.5	127
1 year	49,649	25,137	24,512	1,108	587	521	22.3	23.4	21.3	110
2 years	52,375	26,634	25,741	506	271	235	9.7	10.2	9.1	112
3 years	52,998	26,732	26,266	345	188	157	6.5	7.0	6.0	117
4 years	52,288	26,460	25,828	254	139	115	4.9	5.3	4.5	118
Under 5 years	*263,155*	*133,297*	*129,858*	*8,162*	*4,562*	*3,600*	*31.0*	*34.2*	*27.7*	*123*
5 to 9 years	265,627	134,748	130,879	884	478	406	3.3	3.5	3.1	113
10 to 14 years	255,756	129,783	125,973	508	299	299	2.3	2.3	2.4	96
15 to 19 years	239 369	119,604	119,765	1,011	493	518	4.2	4.1	4.3	95
20 to 24 years	226,681	113,037	113,644	1,289	617	672	5.7	5.5	5.9	93
25 to 29 years	202,673	102,697	99,977	1,194	586	608	5.9	5.7	6.1	93
30 to 34 years	180,578	92,979	87.599	1,051	503	548	5.8	5.4	6 3	86
35 to 39 years	167,683	87,978	79,706	1,147	574	573	6.8	6.5	7.2	90
40 to 44 years	149,803	79,619	70,185	1,204	651	553	8.0	8.2	7.9	104
45 to 49 years	128,083	68,862	59,221	1,174	665	509	9.2	9.7	8.6	113
50 to 54 years	107,958	58,223	49,735	1,280	754	526	11.9	13.0	10.6	123
55 to 59 years	87,447	46,398	41,049	1,436	816	620	16.4	17.6	15.1	117
60 to 64 years	70,974	37,320	33,655	1,741	927	814	24.5	24.8	24.2	102
65 to 69 years	52,561	27,674	24,887	2,123	1,177	946	40.4	42.5	38.0	112
70 to 74 years	36,422	19,476	16,946	2,204	1,212	992	60.5	62.2	58.5	106
75 to 79 years	21,640	11,620	10,020	2,090	1,149	941	96.6	98.9	93.9	105
80 years and over	15,674	8,189	7,485	2,784	1,502	1,282	177.6	183.4	171.3	107
Unknown	3,421	2,281	1,140	100	75	25	29 2	32.9	21 9	150

*Ratio of *death rates* of males to death rates of females.

Table 13.—Death rates and ratios of deaths at certain periods of age, 1870-1900. (Still-births excluded from both births and deaths).

Years and periods.	Death rates per 1,000 population of corresponding age.						Percentages of deaths at each age to total deaths at all ages.					Deaths of infants under 1 year of age per 1,000 living births.
	All ages.	Under 1 year.	Under 5 years.	5 to 14.	15 to 64.	65 and over.	Under 15 years.	Under 5 years.	5 to 14.	15 to 64.	65 and over	
1870	8.9	74.4	26.5	3.5	5.4	37.0	23.5	42.1	9.6	36.6	11.6	91.3
1871	7.7	58.3	21.2	2.9	4.8	36.9	21.2	38.7	9.3	38.1	14.0	75.6
1872	10.3	88.7	30.9	4.0	6.3	38.1	23.9	41.6	9.3	37.2	11.9	110.9
1873	10.6	92.4	31.7	4.4	6.5	41.2	23.9	40.9	9.9	37.2	12.0	96.0
1874	8.8	79.5	25.7	3.0	5.6	38.0	24.6	39.6	8.1	38.7	13.7	94.8
1875	8.1	71.2	23.3	2.6	5.1	34.6	24.2	39.1	7.8	39.1	14.0	85.5
1876	8.2	72.0	23.5	3.0	5.0	37.9	23.7	38.3	8.5	37.8	15.4	82.8
1877	8.1	66.9	23.0	3.2	5.0	37.1	22.1	37.5	9.2	37.8	15.4	81.1
1878	7.7	59.7	21.2	3.4	4.6	36.0	20.6	35.8	10.0	38.0	16.0	70.5
1879	8.6	67.5	24.3	4.3	5.0	38.5	20.8	36.7	11.7	36.0	15.7	84.1
1880	9.4	75.7	27.4	4.6	5.4	39.9	21.5	37.9	11.3	35.7	15.2	93.5
1881	11.0	91.7	33.8	6.1	6.1	41.3	21.7	39.0	12.6	34.7	13.7	116.4
1882	9.0	73.3	26.1	4.7	5.3	36.8	20.9	36.3	11.9	36.3	15.4	88.7
1883	9.0	74.5	25.8	3.8	5.5	37.7	21.1	35.5	9.7	38.5	16.3	83.0
1884	9.4	88.5	28.7	3.8	5.5	39.2	23.7	37.4	9.2	36.9	16.5	101.2
1885	8.4	72.9	23.6	3.2	5.2	37.6	21.6	34.1	8.6	39.1	18.2	81.2
1886	9.0	83.2	27.2	3.3	5.4	38.7	22.8	36.4	8.3	37.5	17.9	96.1
1887	9.5	86.1	28.4	3.4	5.7	41.4	22.1	35.5	8.1	37.9	18.5	(97.2) 89.3
1888	10.2	97.0	30.8	3.3	6.2	44.9	23.0	35.4	7.2	38.3	19.1	(103.4)97.2
1889	9.3	84.5	27.6	3.2	5.8	40.4	21.7	34.3	7.6	39.1	19.1	(91.1) 84.9
1890	9.7	84.0	27.2	3.8	6.1	41.9	20.6	32.4	8.6	39.7	19.4	(89.7) 80.8
1891	9.9	86.3	26.9	3.3	6.1	46.0	21.3	32.0	7.5	39.3	21.2	(93.7) 87.8
1892	9.6	78.3	25.1	3.2	5.9	47.0	20.2	31.0	7.4	39.3	22.4	90.5
1893	9.5	80.8	25.0	3.1	5.9	46.8	21.1	31.1	7.2	39.1	22.4	93.2
1894	8.9	75.3	22.8	2.6	5.7	43.5	21.2	30.6	6.4	40.8	22.3	95.9
1895	9.5	78.0	23.2	2.5	6.2	50.9	20.6	29.1	5.7	41.0	24.2	97.9
1896	9.0	69.6	21.8	2.6	5.7	46.2	20.0	29.5	6.3	40.4	23.7	91.0
1897	8.1	61.9	18.9	2.4	5.2	45.1	19.6	28.1	6.3	40.3	25.3	86.6
1898	11.8	88.6	26.0	2.6	7.5	74.0	19.6	26.8	4.6	39.8	28.8	.....
1899	13.3	99.6	29.8	3.0	8.3	84.0	19.6	27.5	4.7	38.8	29.1	.....
1900	13.4	126.8	36.2	3.1	8.2	71.9	20.3	28.0	4.9	38.3	27.6	.....
1901	13.4	117.2	33.0	2.8	8.4	76.4	19.2	26.1	4.4	39.6	29.5	.....
1902	12.7	106.5	31.0	2.8	8.0	72.1	18.9	25.9	4.7	39.8	29.6	.....
1870-74	9.3	78.7	27.2	3.6	5.7	38.2	23.4	40.6	9.2	37.6	12.6	93.7
1875-79	8.1	67.5	23.1	3.3	4.9	36.8	22.3	37.5	9.4	37.7	15.3	80.8
1880-84	9.6	80.7	28.4	4.6	5.6	39.0	21.8	37.2	10.9	36.4	15.4	96.6
1885-89	9.3	84.7	27.5	3.3	5.7	40.6	22.2	35.1	8.0	38.4	18.6	(93.8) 89.7
1890-94	9.5	80.9	25.4	3.2	5.9	45.0	20.9	31.4	7.4	39.6	21.5	(92.6) 89.6
1895-99	10.3	79.5	23.9	2.6	6.6	60.0	19.9	28.2	5.5	40.1	26.2	.....
1870-99	9.4	78.7	25.9	3.4	5.7	43.3	21.8	35.0	8.4	38.3	18.3	.....

NOTE.—The numbers in parentheses in the last column represent the figures for infant mortality after correction, as far as possible, for fraudulent returns of births and deaths from Wayne county (Detroit) during the years 1887-91. See report for 1892, p. 14. No comparison can be made of the deaths as accurately registered under the new law for the years 1898-1900 with the very imperfect returns of births obtained under the very imperfect law of 1867, which has never been amended.

DEATH RATES AND PROPORTIONAL DEATHS BY AGE PERIODS, 1870-1902.

Table 13 compares the incidence of mortality from all causes at certain important periods of age and also states the proportional deaths of those periods. The increased accuracy of registration beginning with the year 1898 will account for the higher rates shown for the past few years. While the proportional deaths should not be necessarily affected by increased accuracy of registration, assuming that one age

was just as liable as another to be omitted under the old law, it possible that study may show some differential selection of cert

Table 14.—Mortality in Michigan, by geographical sections and groups of cit

Geographical sections and groups of cities.	Total reporting population by U. S. census of 1900.	Total deaths by months, 1902.	Death rates per 1,000 estimated population.	Important ages.					
				Under 1 year.		1 to 4 years.		65 years an over.	
				No.	Per cent.	No.	Per cent.	No.	Per
JANUARY	2,406,332	2,824	13.5	442	15.7	197	7.0	910	
Upper Peninsula	257,013	241	10.3	70	29.0	21	8.7	27	
Northern Counties	288,846	284	11.1	67	23.6	24	8.5	67	
Central Counties	439,004	476	12.7	76	16.0	28	5.9	173	
Southern Counties	1,421,469	1,823	14.9	229	12.6	124	6.8	643	
All Cities	943,184	1,224	14.8	214	17.5	107	8.7	313	
Over 50,000	373,269	505	15.2	91	18.0	62	12.3	107	
25 to 50,000	95,153	117	14.6	13	11.1	2	1.7	45	
10,000 to 25,000	212,890	267	14.3	53	19.9	25	9.4	67	
5,000 to 10,000	153,006	214	15.8	39	18.2	14	6.5	43	
Under 5,000	108,866	121	12.9	18	14.9	4	3.3	51	
Country	1,463,148	1,600	12.7	228	14.3	90	5.6	597	
FEBRUARY	2,414,233	2,665	14.0	422	15.8	150	5.6	897	
Upper Peninsula	258,441	232	10.9	65	28.0	21	9.1	25	
Northern Counties	292,835	265	11.3	61	23.0	14	5.3	62	
Central Counties	440,719	457	13.4	68	14.9	27	5.9	160	
Southern Counties	1,422,238	1,711	15.4	228	13.3	88	5.1	650	
All Cities	943,184	1,134	15.1	199	17.5	68	6.0	318	
Over 50,000	373,269	469	15.6	90	19.2	35	7.5	119	
25,000 to 50,000	95,153	112	15.4	15	13.4	3	2.7	41	
10,000 to 25,000	212,890	251	14.8	47	18.7	19	7.6	63	
5,000 to 10,000	153,006	177	14.4	29	16.4	5	2.8	58	
Under 5,000	108,866	125	14.7	18	14.4	6	4.8	37	
Country	1,471,049	1,531	13.3	223	14.6	82	5.4	579	
MARCH	2,413,404	2,959	14.1	495	16.7	205	6.9	912	
Upper Peninsula	257,226	289	12.4	83	28.7	26	9.0	30	
Northern Counties	294,566	304	11.7	68	22.4	21	6.9	71	
Central Counties	439,374	470	12.6	85	18.1	35	7.4	133	
Southern Counties	1,422,238	1,896	15.4	259	13.7	123	6.5	678	
All Cities	947,193	1,310	15.8	250	19.1	104	7.9	305	
Over 50,000	373,269	552	16.6	104	18.8	62	11.2	123	
25,000 to 50,000	95,153	139	17.4	32	23.0	9	6.5	37	
10,000 to 25,000	212,890	290	15.6	48	16.6	18	6.2	64	
5,000 to 10,000	153,006	188	13.9	42	22.3	11	5.9	36	
Under 5,000	112,875	141	15.1	24	17.0	4	2.8	45	
Country	1,466,211	1,649	13.0	245	14.9	101	6.1	607	
APRIL	2,411,643	2,850	14.1	492	17.3	219	7.7	865	
Upper Peninsula	256,276	273	12.1	65	23.8	33	12.1	41	
Northern Counties	295,096	287	11.4	60	20.9	21	7.3	62	
Central Counties	440,329	446	12.3	68	15.2	36	8.1	154	
Southern Counties	1,419,942	1,844	15.6	299	16.2	129	7.0	608	
All Cities	947,193	1,280	15.9	249	19.5	115	9.0	312	
Over 50,000	373,269	603	18.8	151	25.0	66	10.9	109	
25,000 to 50,000	95,153	108	14.0	17	15.7	8	7.4	33	
10,000 to 25,000	212,890	276	15.3	34	12.3	21	7.6	75	
5,000 to 10,000	153,006	156	11.9	29	18.6	13	8.3	45	
Under 5,000	112,875	137	14.6	18	13.1	7	5.1	50	
Country	1,464,450	1,570	12.9	243	15.5	104	6.6	553	

ages, and hence conclusions in involving comparisons of the two sets of returns should be cautiously drawn.

as originally published in the Michigan Monthly Bulletin of Vital Statistics, 1909.

Important causes of death, with annual death rates per 100,000 estimated population.

Tuberculosis of lungs.		Other tuberculosis.		Typhoid fever.		Diphtheria.		Croup.		Scarlet fever	
No.	Rate.	No.	Rate.	No.	Rate.	No.	Rate	No.	Rate	No	Rate
182	87.1	18	8.6	45	21.5	25	12.0	14	6 7	34	16 4
12	43.9	5	18.3	5	18.3	3	11.0			7	26 6
14	54.8	4	15.6	3	11.7	3	11 7	1	3 9	8	31 4
35	93.7	.....	.....	6	16 1	1	2 7	4	10 7	3	8 0
121	98.6	9	7.3	31	25.3	18	14 7	9	7 3	16	13 0
89	107.6	10	12.1	23	27.8	18	21 8	6	7 3	13	16 7
45	135.5	4	12.0	12	36 1	9	27 1	3	9 0	8	24 1
9	112.5	1	12.5	3	37 5	1	12 5			1	12 5
12	64.3	2	10 7	2	10 7	2	10 7	3	16 1	2	10 7
13	96.2	3	22.2	6	44 4	4	29 6			1	7 4
10	107.0	.....	.....	.....	.....	2	21 4			1	10 7
93	73.7	8	6.3	22	17 4	7	5 5	8	6 3	21	16 6
152	79.9	21	11 0	38	20 0	26	13 7	12	6 3	30	15 8
16	75.2	5	23 5	6	28 2	4	18 8	1	4 7	4	18 8
19	80.6	.....	.....	2	8 5	3	12 8				
24	70.5	5	14 7	7	20 6	5	14 7	3	8 8	7	20 6
93	53 4	11	6 6	22	12 7	16	9 2	3	1 7	14	8 0
77	102.5	12	16 0	19	25 3	8	10 7	4	5 3	7	9 3
33	109 5	1	3 3	8	26 8	1	3 3	2	6 7	2	6 7
10	137 1	.....	.....	4	50		2 5				
13	76 6	5	28 6	3	17 1	3	17 1		5 8		5 8
11	88 1	1	8 8	1	8 8	6	53 0			7	61 8
10	117.6	5	58 8			2	23 5				
75	65 1	8	7 0	18	15 6	15	13 0	7	6 1	8	6
200	95 4	22	10 5	8	3 8	24	11	13	6 2	26	12 4
24	102 8	4	17 1	3	12 8	3	12 8	3	12 8	7	29 9
23	94 4	3	12 3	1	4 1	3	12 3		4 1	3	12 3
34	96 8	3	8 5	1	2 8			2	5 7	3	8 5
130	97 7	22	16 5	26	19 5	8	6 0	8	6 0	21	15 8
96	134 1	11	15 3	2	2 8	9	12 5	2	2 8	3	4 2
87	122 4	8	11 2	4	5 6	3	4 2			3	4 2
4	112 7								2 8		
54	158 7	3	8 8	3	8 8	3	8 8			3	8 8
24	108 1		4 5	1	4 5	1	4 5				4 5
7	31 4		8 8		4 5						4 5
106	61 1		1 0	2	1 0						
280	10. 7	27	1 3	7		7	3 5	7		9	4
21	37 8	1	5 3	1	5 3		5 3				5 3
23	41 1	1								1	
54	102	1									
88	111 2	15		2	2	1	1			1	
105	128 4	2	2	2	2		1				
82	100 4	1	4	1	2						2
11	134 2		1				1				
12	146 1		2		1		2				
12	94 3		2		1		2				
4	95 2				1						
310	2										

Table 14.—Continued.—Mortality in Michigan by geographical sections and groups of

Geographical sections and groups of cities.	Important causes of death, with annual							
	Measles.		Whooping cough.		Pneumonia, bronchopneumonia.		Diarrhea, enteritis, under 2 years.	
	No.	Rate.	No.	Rate.	No.	Rate.	No.	Rate.
JANUARY	24	11.5	19	9.1	378	180.9	38	18.2
UPPER PENINSULA	5	18.3	1	3.7	22	80.5	6	22.0
NORTHERN COUNTIES	.....	.....	4	15.6	43	168.2	11	43.0
CENTRAL COUNTIES	.....	.....	3	8.0	67	179.3	5	13.4
SOUTHERN COUNTIES	19	15.5	11	9.0	246	200.5	16	13.0
ALL CITIES	18	21.8	8	9.7	165	199.5	21	25.4
Over 50,000	14	42.1	5	15.1	83	249.9	5	15.1
25,000 to 50,000	.....	.....	.....	.....	19	237.4	2	25.0
10,000 to 25,000	2	10.7	2	10.7	24	128.7	8	42.9
5,000 to 10,000	2	14.8	.....	.....	18	133.2	6	44.4
Under 5,000	.....	.....	1	10.7	21	224.6	.....	.....
COUNTRY	6	4.8	11	8.7	213	168.7	17	13.5
FEBRUARY	16	8.4	18	9.5	369	193.9	34	17.9
UPPER PENINSULA	1	4.7	4	18.8	29	136.4	6	28.2
NORTHERN COUNTIES	.....	.....	.....	.....	38	161.6	9	38.3
CENTRAL COUNTIES	1	2.9	7	20.6	77	226.2	2	5.9
SOUTHERN COUNTIES	14	12.6	7	6.3	225	201.9	17	15.3
ALL CITIES	9	12.0	9	12.0	143	190.4	15	20.0
Over 50,000	7	23.2	1	3.3	59	195.7	8	26.5
25,000 to 50,000	.....	.....	2	27.5	11	151.4	.....	.....
10, 000 to 25,000	1	5.9	5	29.5	36	212.7	6	35.4
5,000 to 10,000	.....	.....	.....	.....	24	195.7	.....	.....
Under 5,000	1	11.8	1	11.8	13	153.2	1	11.8
COUNTRY	7	6.1	9	7.8	226	196.2	19	16.5
MARCH	34	16.2	29	13.8	385	183.7	35	16.7
UPPER PENINSULA	1	4.3	1	4.3	33	141.5	4	17.2
NORTHERN COUNTIES	.....	.....	2	7.7	43	165.0	6	23.0
CENTRAL COUNTIES	4	10.7	4	10.7	72	192.6	4	10.7
SOUTHERN COUNTIES	29	23.6	22	17.9	237	193.0	21	17.1
ALL CITIES	27	32.6	13	15.7	162	195.8	16	19.3
Over 50,000	17	51.2	9	27.1	72	216.8	9	27.1
25,000 to 50,000	3	37.5	.....	.....	22	274.9	1	12.5
10,000 to 25,000	3	16.1	3	16.1	31	166.2	5	26.8
5,000 to 10,000	2	14.8	1	7.4	17	125.8	1	7.4
Under 5,000	2	21.4	.....	.....	20	213.9	.....	.....
COUNTRY	7	5.5	16	12.6	223	175.8	19	15.0
APRIL	35	17.3	25	12.3	354	174.8	43	21.2
UPPER PENINSULA	2	8.9	2	8.9	40	178.0	6	26.7
NORTHERN COUNTIES	.....	.....	2	7.9	39	154.3	7	27.7
CENTRAL COUNTIES	8	22.1	2	5.5	54	149.0	5	13.8
SOUTHERN COUNTIES	25	21.1	19	16.0	221	186.4	25	21.1
ALL CITIES	20	24.9	12	14.9	162	201.5	20	24.9
Over 50,000	12	37.4	8	24.9	83	258.3	11	34.2
25,000 to 50,000	1	12.9	1	12.9	13	167.9	.....	.....
10,000 to 25,000	3	16.6	2	11.1	35	194.0	3	16.6
5,000 to 10,000	1	7.7	1	7.7	16	122.4	5	38.3
Under 5,000	3	31.9	.....	.....	15	159.3	1	10.6
COUNTRY	15	12.3	13	10.6	192	157.2	23	18.8

cities, as originally published in Michigan Monthly Bulletin of Vital Statistics, 1909.

death rates per 100,000 estimated population.

Meningitis.		Influenza.		Puerperal septicemia.		Cancer.		Violence.		Still-births excluded.
No.	Rate.	No.	Rate.	No.	Rate.	No.	Rate.	No.	Rate.	
39	18.7	64	30.6	14	6.7	125	59.8	147	70.3	164
2	7.3	1	3.7	.....	.....	8	29.3	36	131.7	22
8	31.3	5	19.6	2	7.8	7	27.4	15	58.7	23
5	13.4	17	45.5	2	5.4	26	69.6	22	58.9	32
24	19.6	41	33.4	10	8.1	84	68.5	74	60.3	67
14	16.9	21	25.4	6	7.3	59	71.3	75	90.7	60
6	18.1	3	9.0	2	6.0	24	72.3	22	66.2	42
1	12.5	2	25.0	1	12.5	11	137.4	3	37.5	7
3	16.1	5	26.8	1	5.4	9	48.3	21	112.6	29
4	29.6	3	22.2	1	7.4	10	74.0	24	177.6	15
.....	.....	8	55.6	1	10.7	5	53.5	5	53.5	6
25	19.8	43	34.1	8	6.3	66	52.3	72	57.0	65
45	23.6	78	41.0	17	8.9	114	59.9	100	52.6	156
5	23.5	4	18.8	1	4.7	6	28.2	24	112.8	22
3	12.8	5	21.3	1	4.3	6	25.5	13	55.3	19
8	23.5	13	38.2	7	20.6	20	58.8	17	50.0	26
29	26.0	56	50.2	8	7.2	82	73.6	46	41.3	79
19	25.3	19	25.3	2	2.7	59	78.6	41	54.6	62
8	26.5	3	10.0	.....	.....	19	63.0	12	39.8	31
1	13.8	.....	.....	.....	.....	10	137.7	3	41.3	12
4	23.6	4	22.6	1	5.9	17	100.4	13	76.8	19
4	32.6	9	73.4	1	8.2	9	73.4	7	57.1	11
2	23.6	3	35.4	.....	.....	4	47.1	6	70.7	9
26	22.6	39	51.2	15	13.0	56	47.7	59	51.2	74
45	21.5	70	33.4	19	9.1	119	56.8	147	70.1	170
4	17.2	2	8.6	1	4.3	10	42.9	26	111.6	33
4	15.3	6	22.0	1	3.8	5	19.2	16	61.4	17
5	13.4	6	16.0	4	10.7	22	58.8	18	48.1	27
32	26.1	56	45.6	13	10.6	82	66.8	87	70.9	93
29	35.1	17	20.5	10	12.1	47	56.8	62	74.9	93
17	51.2	6	18.1	7	21.1	24	72.3	16	48.2	41
2	25.0	1	12.5	.....	.....	6	75.0	6	75.0	6
3	16.1	6	32.2	2	10.7	8	42.9	20	107.2	22
5	37.0	1	7.4	1	7.4	4	29.6	10	74.0	18
2	21.4	3	32.1	.....	.....	5	53.5	10	107.0	6
16	12.6	53	41.8	9	7.1	72	56.8	85	67.0	77
52	25.7	45	22.2	18	8.9	134	66.2	153	75.6	130
6	26.7	3	13.3	1	4.4	15	66.7	22	97.9	24
9	35.6	2	8.0	3	11.9	9	35.6	27	106.8	11
9	24.8	8	24.8	3	8.3	21	57.9	19	52.4	22
28	22.4	32	25.6	11	8.8	89	71.1	86	71.7	78
26	32.3	10	12.4	7	8.7	66	82.1	70	87.1	80
14	45.6	1	3.2	2	6.2	29	90.3	29	90.3	38
2	25.8	.....	.....	.....	.....	10	129.2	10	129.2	8
3	16.1	1	5.3	4	22.2	13	72.1	16	88.9	16
3	23.0	4	30.6	.....	.....	9	68.9	8	61.2	9
4	42.5	4	42.5	1	10.6	6	63.8	8	85.0	4
36	22.5	35	22.0	11	6.9	68	56.7	83	67.9	66

Table 14.—Continued.—Mortality in Michigan, by geographical sections and groups of

Geographical sections and groups of cities.	Total reporting population by U. S. census of 1900.	Total deaths by months, 1902.	Death rates per 1,000 estimated population.	Important ages.					
				Under 1 year.		1 to 4 years.		65 years and over.	
				No.	Per cent.	No.	Per cent.	No.	Per cent.
MAY	2,408,406	2,686	12.8	465	17.3	194	7.2	769	28.6
Upper Peninsula	256,243	274	11.8	74	27.0	32	11.7	28	10.2
Northern Counties	292,598	277	10.7	55	19.9	23	8.3	61	22.0
Central Counties	439,555	389	10.4	66	17.0	18	4.6	112	28.8
Southern Counties	1,420,010	1,746	14.2	270	15.5	121	6.9	568	32.5
All Cities	947,193	1,197	14.4	228	19.0	98	8.2	261	21.8
Over 50,000	373,269	503	15.1	110	21.9	61	12.1	87	17.3
25,000 to 50,000	95,153	100	12.5	21	21.0	3	3.0	23	23.0
10,000 to 25,000	212,890	260	13.9	54	20.8	15	5.8	54	20.8
5,000 to 10,000	153,006	202	15.0	29	14.4	15	7.4	57	28.2
Under 5,000	112,875	132	13.6	14	10.6	4	3.0	40	30.3
Country	1,461,213	1,489	11.8	237	15.9	96	6.4	508	34.1
JUNE	2,405,582	2,234	11.1	395	17.7	147	6.6	651	29.1
Upper Peninsula	257,801	227	10.0	61	26.9	25	11.0	21	9.3
Northern Counties	291,092	212	8.5	28	13.2	14	6.6	46	21.7
Central Counties	438,976	376	10.4	71	18.9	21	5.6	108	28.7
Southern Counties	1,417,713	1,419	12.0	235	16.6	87	6.1	476	33.5
All Cities	947,193	1,001	12.5	219	21.9	74	7.4	212	21.2
Over 50,000	373,269	428	13.3	117	27.3	40	9.3	88	20.6
25,000 to 50,000	95,153	79	10.2	14	17.7	4	5.1	10	12.7
10,000 to 25,000	212,890	210	11.6	43	20.5	10	4.8	44	21.0
5,000 to 10,000	153,006	165	12.6	29	17.6	8	4.8	35	21.2
Under 5,000	112,875	119	12.6	16	13.4	12	10.1	35	29.4
Country	1,458,389	1,233	10.1	176	14.3	73	5.9	439	35.6
JULY	2,392,486	2,447	11.8	509	20.8	186	7.6	625	25.5
Upper Peninsula	255,770	256	11.0	69	27.0	31	12.1	26	10.2
Northern Counties	288,656	235	9.2	51	21.7	23	9.8	45	19.1
Central Counties	434,136	384	10.4	68	17.7	30	7.8	111	28.9
Southern Counties	1,413,924	1,572	12.9	321	20.4	102	6.5	443	28.2
All Cities	947,193	1,126	13.5	282	25.0	88	7.8	212	18.8
Over 50,000	373,267	519	15.6	169	32.6	52	10.0	67	12.9
25,000 to 50,000	95,153	101	12.6	16	15.8	7	6.9	27	26.7
10,000 to 25,000	212,890	230	12.3	50	21.7	11	4.8	48	20.9
5,000 to 10,000	153,006	154	11.4	32	20.8	8	5.2	32	20.8
Under 5,000	112,875	122	12.5	15	12.3	10	8.2	38	31.1
Country	1,445,293	1,321	10.6	227	17.2	98	7.4	413	31.3
AUGUST	2,398,954	2,466	11.8	585	23.7	191	7.7	630	25.5
Upper Peninsula	251,255	339	14.9	142	41.9	38	11.2	26	7.7
Northern Counties	293,377	262	10.1	65	24.8	24	9.2	53	20.2
Central Counties	437,560	360	9.7	75	20.8	23	6.4	98	27.2
Southern Counties	1,416,762	1,505	12.3	303	20.1	106	7.0	453	30.1
All Cities	947,193	1,163	14.0	348	29.9	88	7.6	212	18.2
Over 50,000	373,269	511	15.4	172	33.7	36	7.0	88	17.2
25,000 to 50,000	95,153	87	10.9	25	28.7	2	2.3	21	24.1
10,000 to 25,000	212,890	229	12.3	59	25.8	18	7.9	45	19.7
5,000 to 10,000	153,006	218	16.1	68	31.2	20	9.2	34	15.6
Under 5,000	112,875	118	12.1	24	20.3	12	10.2	24	20.3
Country	1,451,761	1,303	10.4	237	18.2	103	7.9	418	32.1

cities, as originally published in the Michigan Monthly Bulletin of Vital Statistics, 1902.

Important causes of death, with annual death rates per 100,000 estimated population.

Tuberculosis of lungs.		Other tuberculosis.		Typhoid fever.		Diphtheria.		Croup.		Scarlet fever.	
No.	Rate.	No.	Rate.	No.	Rate.	No.	Rate.	No	Rate.	No.	Rate.
205	98.0	41	19.6	34	16.3	20	9.6	11	5.3	25	12.0
19	81.8	3	12.9	6	25.8	2	8.6	2	8.6	3	12.9
21	81.0	4	15.4	7	27.0	4	15.4	2	7.7	1	3.9
34	90.9	7	18.7	2	5.3	1	2.7	2	5.3	1	2.7
131	106.9	27	22.0	19	15.5	13	10.6	5	4.1	20	16.3
81	97.5	20	24.1	21	25.3	15	18.0	3	3.6	11	13.2
34	102.4	8	24.1	7	21.1	7	21.1	2	6.0	9	27.1
8	100.0	1	12.5	2	25.0	.....	.....	.....	.....	.....	.....
16	85.8	4	21.4	6	32.2	6	32.2	.....	.....	.....	.....
17	125.8	2	14.8	4	29.6	1	7.4	1	7.4	2	14.8
6	61.6	5	51.4	2	20.5	1	10.3	.....	.....	.....	.....
124	98.4	21	16.7	13	10.3	5	4.0	8	6.3	14	11.1
176	87.1	29	14.4	27	13.4	25	12.4	4	2.0	16	7.9
22	97.3	3	13.3	1	4.4	9	39.8	1	4.4	2	8.8
16	64.2	.....	.....	2	8.0	4	16.1	1	4.0	3	12.0
37	102.4	4	11.1	7	19.4	.....	.....	1	2.8	2	5.5
101	85.3	22	18.6	17	14.4	12	10.1	1	0.8	9	7.6
87	108.2	16	19.9	12	14.9	16	19.9	2	2.5	6	7.5
36	112.1	8	24.9	7	21.8	5	15.6	.....	.....	3	9.3
10	129.2	.....	.....	1	12.9	.....	.....	.....	.....	1	12.9
19	105.3	4	22.2	1	5.5	6	33.3	.....	.....	2	11.1
16	122.4	3	23.0	1	7.7	2	15.3	1	7.7	.....	.....
6	63.7	1	10.6	2	21.2	3	31.9	1	10.6	.....	.....
89	73.2	13	10.7	15	12.3	9	7.4	2	1.6	10	8.2
152	73.2	28	13.5	37	17.8	23	11.1	3	1.4	10	4.8
18	77.6	1	4.3	5	21.6	5	21.6	2	8.6	2	8.6
10	39.1	1	3.9	4	15.7	3	11.7	.....	.....	.....	.....
25	67.7	5	13.5	3	8.1	8	21.7	.....	.....	1	2.7
99	81.1	21	17.2	25	20.5	7	5.7	1	0.8	7	5.7
65	78.2	13	15.6	17	20.5	10	12.0	1	1.2	8	9.6
26	78.3	5	15.1	8	24.1	3	9.0	.....	.....	5	15.1
7	87.5	1	12.5	1	12.5	2	25.0	.....	.....	.....	.....
13	69.7	3	16.1	5	26.8	2	10.7	.....	.....	1	5.4
9	66.1	1	7.4	3	22.2	2	14.8	.....	.....	2	14.8
10	102.7	3	30.8	.....	.....	1	10.3	1	10.3	.....	.....
87	69.8	15	12.0	20	16.0	13	10.4	2	1.6	2	1.6
158	75.9	20	9.6	45	21.6	28	13.4	5	2.4	12	5.8
18	79.0	3	13.2	4	17.6	4	17.6	1	4.4	4	17.6
21	80.9	2	7.7	3	11.6	2	7.7	1	3.9	3	11.6
28	75.2	.....	.....	9	24.2	.....	.....	1	2.7	2	5.4
91	74.4	15	12.3	29	23.7	22	18.0	2	1.6	3	2.5
74	89.0	10	12.0	27	32.5	18	21.7	3	3.6	8	9.6
35	105.4	3	9.0	12	36.1	10	30.1	2	6.0	1	3.0
3	37.5	1	12.5	1	12.5	.....	.....	.....	.....	.....	.....
12	64.3	3	16.1	5	26.8	6	32.2	.....	.....	1	5.4
15	111.0	3	22.2	5	37.0	2	14.8	1	7.4	4	29.6
9	92.5	.....	.....	4	41.1	.....	.....	.....	.....	2	20.5
84	67.1	10	8.0	18	14.4	10	8.0	2	1.6	4	3.2

Table 14.—Continued.—Mortality in Michigan, by geographical sections and groups of

Geographical sections and groups of cities.	Important causes of death, with annual							
	Measles.		Whooping cough.		Pneumonia, bronchopneumonia.		Diarrhea, enteritis, under 2 years.	
	No.	Rate.	No.	Rate.	No.	Rate.	No.	Rate.
MAY	43	20.6	29	13.9	311	148.7	60	28.7
Upper Peninsula	3	12.9	.....	.....	46	198.0	15	64.6
Northern Counties	2	7.7	4	15.4	31	119.6	9	34.7
Central Counties	6	16.0	6	16.0	34	90.9	5	13.4
Southern Counties	32	26.1	19	15.5	200	163.1	31	25.3
All Cities	22	26.5	16	19.3	149	179.3	24	28.9
Over 50,000	12	36.1	10	30.1	75	225.8	13	39.1
25,000 to 50,000	1	12.5	3	37.5	8	100.0	1	12.5
10,000 to 25,000	3	16.1	1	5.4	27	144.8	6	32.2
5,000 to 10,000	4	29.6	.....	.....	24	177.6	1	7.4
Under 5,000	2	20.5	2	20.5	15	154.1	3	30.8
Country	21	16.7	13	10.3	161	128.5	36	28.6
JUNE	32	15.8	34	16.8	160	79.2	55	27.2
Upper Peninsula	6	26.5	1	4.4	26	115.0	11	48.7
Northern Counties	2	8.0	4	16.1	15	60.2	6	24.1
Central Counties	5	13.8	9	24.9	26	72.0	5	13.8
Southern Counties	19	16.1	20	16.9	93	78.6	33	27.9
All Cities	18	22.4	12	14.9	88	109.5	30	37.3
Over 50,000	8	24.9	7	21.8	42	130.7	21	65.4
25,000 to 50,000	3	38.8	.....	.....	8	103.3	.....	.....
10,000 to 25,000	1	5.5	1	5.5	24	133.1	4	22.2
5,000 to 10,000	1	7.7	1	7.7	9	68.9	2	15.3
Under 5,000	5	53.1	3	31.9	5	53.1	3	31.9
Country	14	11.5	22	18.1	72	59.2	25	20.5
JULY	13	6.3	26	12.5	102	49.1	200	96.3
Upper Peninsula	4	17.2	.....	.....	12	51.7	33	142.3
Northern Counties	.....	.....	3	11.7	20	78.3	5	19.6
Central Counties	.....	.....	5	13.5	14	37.9	13	35.2
Southern Counties	9	7.4	18	14.7	56	45.9	149	122.1
All Cities	3	3.6	13	15.6	47	56.6	142	170.9
Over 50,000	2	6.0	8	24.1	24	72.3	105	316.1
25,000 to 50,000	.....	.....	1	12.5	7	87.5	3	37.5
10,000 to 25,000	1	5.4	2	10.7	9	48.3	14	75.1
5,000 to 10,000	.....	.....	1	7.4	4	29.6	9	66.6
Under 5,000	.....	.....	1	10.3	3	30.8	11	113.0
Country	10	8.0	13	10.4	55	44.1	58	46.5
AUGUST	8	3.8	27	13.0	88	42.3	325	156.1
Upper Peninsula	4	17.6	2	8.8	15	65.8	101	443.2
Northern Counties	1	3.9	3	11.6	9	34.7	27	104.0
Central Counties	.....	.....	4	10.7	10	26.9	43	115.5
Southern Counties	3	2.5	18	14.7	54	44.2	154	126.0
All Cities	2	2.4	15	18.0	43	51.7	195	234.6
Over 50,000	1	3.0	6	18.1	24	72.3	87	261.9
25,000 to 50,000	.....	.....	3	37.5	4	50.0	11	137.4
10,000 to 25,000	1	5.4	2	10.7	7	37.5	33	177.0
5,000 to 10,000	.....	.....	3	22.2	3	22.2	44	325.7
Under 5,000	.....	.....	1	10.3	5	51.4	20	205.5
Country	6	4.8	12	9.6	45	36.0	130	103.9

cities, as originally published in the Michigan Monthly Bulletin of Vital Statistics, 1902.

death rates per 100,000 estimated population.

Meningitis.		Influenza.		Puerperal septicemia.		Cancer.		Violence.		Still-births excluded.
No.	Rate.	No.	Rate.	No.	Rate.	No.	Rate.	No.	Rate.	
55	26.3	27	12.9	16	7.7	101	48.3	152	72.7	162
6	25.8	1	4.3	4	17.2	3	12.9	24	103.3	34
7	27.0	1	3.9	4	15.4	7	27.0	25	96.5	20
9	24.1	3	8.0	3	8.0	21	56.1	21	56.1	17
33	26.9	22	17.9	5	4.1	70	57.1	82	66.9	91
29	34.9	9	10.8	6	7.2	48	57.8	70	84.2	95
15	45.2	3	9.0	2	6.0	19	57.2	20	60.2	46
3	37.5	.....	.....	.....	.....	4	50.0	7	87.5	6
3	16.1	1	5.4	.....	.....	11	59.0	23	123.3	18
7	51.8	3	22.2	3	22.2	6	44.4	12	88.8	16
1	10.3	2	20.5	1	10.3	8	82.2	8	82.2	9
26	20.6	18	14.3	10	7.9	53	42.1	82	65.1	67
33	16.3	11	5.4	6	3.0	117	57.9	176	87.1	150
4	17.7	.....	.....	2	8.8	7	31.0	43	190.2	18
1	4.0	1	4.0	1	4.0	8	32.1	24	96.3	23
5	13.8	2	5.5	1	2.8	12	33.2	33	91.3	19
23	19.4	8	6.8	2	1.7	90	76.0	76	64.2	90
16	19.9	4	5.0	4	5.0	62	77.1	80	99.5	100
5	15.6	1	3.1	1	3.1	26	80.9	19	59.1	49
2	25.8	.....	.....	.....	.....	4	51.7	7	90.4	9
4	22.2	2	11.1	.....	.....	15	83.2	52	138.6	21
5	38.3	.....	.....	3	23.0	5	38.3	20	153.1	15
.....	.....	1	10.6	.....	.....	12	127.5	9	95.6	6
17	14.0	7	5.8	2	1.6	55	45.2	96	78.9	50
56	27.0	5	2.4	15	7.2	140	67.4	235	113.1	134
3	12.9	.....	.....	1	4.3	8	34.5	46	198.4	15
3	11.7	2	7.8	5	19.6	11	43.1	23	90.0	16
13	35.2	1	2.7	1	2.7	24	65.0	30	81.2	25
37	30.3	2	1.6	8	6.6	97	79.5	136	111.4	78
24	28.9	1	1.2	6	7.2	74	89.0	103	123.9	87
14	42.1	.....	.....	5	15.1	30	90.3	34	102.4	46
1	12.5	.....	.....	.....	.....	5	62.5	6	75.0	8
3	16.1	1	5.4	1	5.4	20	107.2	26	139.4	15
6	44.4	.....	.....	.....	.....	9	66.6	19	140.6	9
.....	.....	.....	.....	.....	.....	10	102.7	18	184.9	9
32	25.7	4	3.2	9	7.2	66	52.9	132	101.9	47
44	21.1	3	1.4	10	4.8	124	59.6	173	83.1	152
9	39.5	1	4.4	1	4.4	4	17.6	28	122.9	18
6	23.1	.....	.....	1	3.9	15	57.8	20	77.0	26
5	13.4	1	2.7	2	5.4	12	32.2	23	61.8	25
24	19.6	1	0.8	6	4.9	93	76.1	102	83.4	83
19	22.9	1	1.2	4	4.8	49	59.0	88	105.9	78
8	24.1	.....	.....	.....	.....	14	42.1	29	87.3	36
2	25.0	.....	.....	1	12.5	2	25.0	6	75.0	7
5	26.8	.....	.....	1	5.4	16	85.8	23	123.3	19
1	7.4	1	7.4	1	7.4	13	96.2	21	155.4	13
3	30.8	.....	.....	1	10.3	4	41.1	9	92.5	3
25	20.0	2	1.6	6	4.8	75	59.9	85	67.9	74

Table 14.—Continued.—Mortality in Michigan, by geographical sections and groups of

Geographical sections and groups of cities.	Total reporting population by U. S. census of 1900.	Total deaths by months, 1902.	Death rates per 1,000 population.	Important ages.					
				Under 1 year.		1 to 4 years.		65 years and over.	
				No.	Per cent.	No.	Per cent.	No.	Per cent.
SEPTEMBER	2,398,681	2,548	12.6	607	23.8	219	8.6	662	26.0
UPPER PENINSULA	254,821	378	16.9	160	42.3	43	11.4	34	9.0
NORTHERN COUNTIES	290,968	273	11.0	82	30.0	20	7.3	54	19.8
CENTRAL COUNTIES	439,576	410	11.3	78	19.0	38	9.3	118	28.8
SOUTHERN COUNTIES	1,413,316	1,487	12.6	287	19.3	118	7.9	456	30.7
ALL CITIES	947,193	1,121	13.9	298	26.6	77	6.9	237	21.1
Over 50,000	373,269	432	13.4	119	27.5	41	9.5	76	17.6
25,000 to 50,000	95,153	108	14.0	19	17.6	7	6.5	30	27.8
10,000 to 25,000	212,890	273	15.1	77	28.2	12	4.4	48	17.6
5,000 to 10,000	153,006	178	13.6	55	30.9	4	2.2	49	27.5
Under 5,000	112,875	130	13.8	28	21.5	13	10.0	34	26.2
COUNTRY	1,451,488	1,427	11.8	309	21.7	142	10.0	425	29.8
OCTOBER	2,391,087	2,360	11.4	470	19.9	181	7.7	607	25.7
UPPER PENINSULA	256,671	294	12.6	88	29.9	34	11.6	31	10.[illegible]
NORTHERN COUNTIES	288,557	270	10.0	68	25.2	24	8.9	48	17.[illegible]
CENTRAL COUNTIES	428,375	379	10.4	77	20.3	25	6.6	99	26.[illegible]
SOUTHERN COUNTIES	1,417,484	1,417	11.6	237	16.7	98	6.9	429	30.[illegible]
ALL CITIES	947,193	1,059	13.2	233	22.0	87	8.2	219	20.[illegible]
Over 50,000	373,269	419	13.0	95	22.7	37	8.8	70	16.[illegible]
25,000 to 50,000	95,153	91	11.8	13	14.3	7	7.7	27	29.[illegible]
10,000 to 25,000	212,890	246	13.6	51	20.7	19	7.7	46	18.[illegible]
5,000 to 10,000	153,006	172	13.2	45	26.2	17	9.9	37	[illegible]
Under 5,000	112,875	131	13.9	29	22.1	7	5.3	39	[illegible]
COUNTRY	1,443,894	1,301	10.2	237	18.2	94	7.2	388	[illegible]
NOVEMBER	2,397,534	2,357	11.7	409	17.4	159	6.7	703	29.8
UPPER PENINSULA	256,773	276	12.3	71	25.7	27	9.8	25	9.1
NORTHERN COUNTIES	291,089	273	11.0	67	24.5	24	8.8	58	21.2
CENTRAL COUNTIES	434,750	364	10.2	62	17.0	22	6.0	119	32.7
SOUTHERN COUNTIES	1,414,922	1,444	12.2	209	14.5	86	6.0	501	34.7
ALL CITIES	947,193	1,052	13.1	188	17.9	82	7.8	239	22.7
Over 50,000	373,269	412	12.8	78	18.9	42	10.2	80	19.4
25,000 to 50,000	95,153	112	14.5	10	8.9	6	5.4	34	30.4
10,000 to 25,000	212,890	230	12.8	38	16.5	14	6.1	45	19.6
5,000 to 10,000	153,006	174	13.3	42	24.1	13	7.5	43	24.7
Under 5,000	112,875	124	13.2	20	16.1	7	5.6	37	29.8
COUNTRY	1,450,341	1,305	10.8	221	16.9	77	5.9	464	35.6
DECEMBER	2,402,974	2,666	12.8	463	17.4	166	6.2	850	31.9
UPPER PENINSULA	257,245	297	12.7	86	29.0	28	9.4	41	13.8
NORTHERN COUNTIES	289,244	268	10.5	73	27.2	20	7.5	56	20.9
CENTRAL COUNTIES	438,080	446	12.0	69	15.5	26	5.8	137	30.7
SOUTHERN COUNTIES	1,418,405	1,655	13.5	235	14.2	92	5.6	616	37.2
ALL CITIES	947,193	1,204	14.5	221	18.4	83	6.9	299	24.8
Over 50,000	373,269	479	14.4	89	18.6	46	9.6	109	22.8
25,000 to 50,000	95,153	123	15.4	19	15.4	9	7.3	38	30.9
10,000 to 25,000	212,890	263	14.1	42	16.0	12	4.6	54	20.5
5,000 to 10,000	153,006	210	15.5	47	22.4	12	5.7	56	26.7
Under 5,000	112,875	129	13.3	24	18.6	4	3.1	42	32.9
COUNTRY	1,455,781	1,462	11.7	242	16.6	83	5.7	551	37.7

cities, as originally published in the Michigan Monthly Bulletin of Vital Statistics, 1902.

Important causes of death, with annual death rates per 100,000 estimated population.

Tuberculosis of lungs.		Other tuberculosis.		Typhoid fever.		Diphtheria.		Croup.		Scarlet fever.	
No.	Rate.	No.	Rate.	No.	Rate.	No.	Rate.	No.	Rate.	No.	Rate.
162	80.4	26	12.9	80	39.7	43	21.3	5	2.5	17	8.4
21	94.0	4	17.9	14	62.6	4	17.9	.....	.....	1	4.5
24	96.4	1	4.0	10	40.2	1	4.0	1	4.0	3	12.0
26	71.9	5	13.8	13	35.9	2	5.5	1	2.8	6	16.6
91	77.1	16	13.6	43	36.4	36	30.5	3	2.5	7	5.9
70	87.1	12	14.9	37	46.0	30	37.3	3	3.7	6	7.5
33	102.7	5	15.6	13	40.5	20	62.3	1	3.1	4	12.5
5	64.6	1	12.9	2	25.8	.....	.....	.....	.....	1	12.9
16	88.7	5	27.7	10	55.4	8	44.4	2	11.1	1	5.5
6	45.9	.....	.....	7	53.6	1	7.7	.....	.....	.....	.....
10	106.2	1	10.6	5	53.1	1	10.6	.....	.....	.....	.....
92	76.0	14	11.6	43	35.5	13	10.7	2	1.7	11	9.1
143	68.9	19	9.2	84	40.5	64	30.8	9	4.3	19	9.2
19	81.6	4	17.2	11	47.3	12	51.5	2	8.6	2	8.6
17	66.6	2	7.8	8	31.3	8	31.3	4	15.7	3	11.7
23	63.1	2	5.5	13	35.7	6	16.5	2	5.5	3	8.2
84	68.7	11	9.0	52	42.5	38	31.1	1	0.8	11	9.0
58	72.2	9	11.2	35	43.5	43	53.5	3	3.7	11	13.7
22	68.5	3	9.3	15	46.7	24	74.7	.....	.....	5	15.6
5	64.6	.....	.....	4	51.7	.....	.....	.....	.....	.....	.....
17	94.3	2	11.1	6	33.3	16	88.7	1	5.5	1	5.5
10	76.5	1	7.7	6	45.9	1	7.7	1	7.7	4	30.6
4	42.5	3	31.9	4	42.5	2	21.2	1	10.6	1	10.6
85	66.8	10	7.9	49	38.5	21	16.5	6	4.7	8	6.3
129	64.1	34	16.9	65	32.3	40	19.9	11	5.5	25	12.4
19	84.4	5	22.2	11	48.8	5	22.2	4	17.8	6	26.6
11	42.2	3	12.0	8	32.1	5	20.1	2	8.0	3	12.0
23	64.3	4	11.2	6	16.8	2	5.6	1	2.8	3	8.4
76	64.3	22	18.6	40	33.9	28	23.7	4	3.4	13	11.0
61	75.9	18	22.4	31	38.6	25	31.1	5	6.2	12	14.9
31	96.5	8	24.9	8	24.9	17	52.9	1	3.1	7	21.8
7	90.4	2	25.8	4	51.7	.....	.....	1	12.9	1	12.9
11	61.0	5	27.7	6	33.3	7	38.8	1	5.5	1	5.5
8	61.2	2	15.3	7	53.6	1	7.7	2	15.3	3	23.0
4	42.5	1	10.6	6	63.7	.....	.....	.....	.....	.....	.....
68	56.2	16	13.2	34	28.1	15	12.4	6	5.0	13	10.7
165	79.1	29	13.9	59	28.3	55	26.4	13	6.2	16	7.7
15	64.3	10	42.9	6	25.7	8	34.3	3	12.9	.....	.....
10	39.1	1	3.9	4	15.6	2	7.8	1	3.9	4	15.6
26	69.7	1	2.7	8	21.5	5	13.4	2	5.4	2	5.4
114	93.1	17	13.9	41	33.5	40	32.7	7	5.7	10	8.2
85	102.3	14	16.8	31	37.3	32	38.5	6	7.2	9	10.8
47	141.5	4	12.0	13	39.1	22	66.2	2	6.0	5	15.1
2	25.0	1	12.5	4	50.0	2	25.0	2	25.0	.....	.....
9	48.3	2	10.7	8	42.9	5	26.8	1	5.4	.....	.....
20	148.0	6	44.4	4	29.6	1	7.4	.....	.....	3	22.2
7	71.9	1	10.3	2	20.5	2	20.5	1	10.3	1	10.3
80	63.8	15	12.0	28	22.3	23	18.3	7	5.6	7	5.6

Table 14.—Concluded.—Mortality in Michigan, by geographical sections and groups of

Geographical sections and groups of cities.	Important causes of death, with annual							
	Measles.		Whooping cough.		Pneumonia, bronchopneumonia.		Diarrhea, enteritis, under 2 years.	
	No.	Rate.	No.	Rate.	No.	Rate.	No.	Rate.
SEPTEMBER	4	2.0	24	11.9	119	59.1	329	163.
UPPER PENINSULA	3	13.4	5	22.4	25	111.9	97	434
NORTHERN COUNTIES	.....	.....	2	8.0	17	68.3	44	176
CENTRAL COUNTIES	.....	.....	4	11.1	12	33.2	47	129
SOUTHERN COUNTIES	1	0.8	13	11.0	65	55.1	141	119
ALL CITIES	1	1.2	10	12.4	46	57.2	137	170
Over 50,000	1	3.1	3	9.3	14	43.6	49	152
25,000 to 50,000	.....	.....	2	25.8	5	64.6	5	64
10,000 to 25,000	.....	.....	1	5.5	11	61.0	38	210
5,000 to 10,000	.....	.....	2	15.3	10	76.5	28	214
Under 5,000	.....	.....	2	21.2	6	63.7	17	180
COUNTRY	3	2.5	14	11.6	73	60.3	192	158
OCTOBER	2	1.0	13	6.3	149	71.8	130	62
UPPER PENINSULA	.....	.....	1	4.3	24	103.1	26	111
NORTHERN COUNTIES	.....	.....	1	3.9	14	54.8	20	78
CENTRAL COUNTIES	.....	.....	4	11.0	22	60.3	26	71
SOUTHERN COUNTIES	2	1.6	7	5.7	89	72.8	58	47
ALL CITIES	1	1.2	6	7.5	84	104.5	55	68
Over 50,000	.....	.....	3	9.3	38	118.3	17	52
25,000 to 50,000	.....	.....	.....	.....	9	116.3	4	51
10,000 to 25,000	.....	.....	3	16.6	23	127.5	14	77
5,000 to 10,000	.....	.....	.....	.....	7	53.6	10	76
Under 5,000	1	10.6	.....	.....	7	74.4	10	105
COUNTRY	1	0.8	7	5.5	65	51.1	75	59
NOVEMBER	7	3.5	23	11.4	201	99.8	57	28
UPPER PENINSULA	2	8.9	1	4.4	30	133.2	14	62
NORTHERN COUNTIES	3	12.0	4	16.1	27	108.4	10	40
CENTRAL COUNTIES	.....	.....	8	22.4	30	83.8	8	22
SOUTHERN COUNTIES	2	1.7	10	8.5	114	96.5	25	21
ALL CITIES	1	1.2	7	8.7	101	125.6	18	22
Over 50,000	.....	.....	.....	.....	34	105.8	6	18
25,000 to 50,000	1	12.9	2	25.8	11	142.1	1	12
10,000 to 25,000	.....	.....	3	16.6	25	138.6	3	16
5,000 to 10,000	.....	.....	2	15.3	18	137.8	6	45
Under 5,000	.....	.....	.....	.....	13	138.1	2	21
COUNTRY	6	5.0	16	13.2	100	82.7	39	32
DECEMBER	11	5.3	23	11.0	291	139.5	44	21
UPPER PENINSULA	6	25.7	1	4.3	36	154.3	11	47
NORTHERN COUNTIES	2	7.8	1	3.9	47	183.6	7	27
CENTRAL COUNTIES	1	2.7	4	10.7	50	134.1	5	13
SOUTHERN COUNTIES	2	1.6	17	13.9	158	129.1	21	17
ALL CITIES	3	3.6	10	12.0	119	143.2	21	25
Over 50,000	.....	.....	6	18.1	42	126.4	7	21
25,000 to 50,000	1	12.5	2	25.0	13	162.4	1	12
10,000 to 25,000	2	10.7	1	5.4	27	144.8	4	21
5,000 to 10,000	.....	.....	1	7.4	18	133.2	5	37
Under 5,000	.....	.....	.....	.....	19	195.2	4	41
COUNTRY	8	6.4	13	10.4	172	137.1	23	18

Table 15.—Cities of Michigan, grouped in order of population by U. S. census of 1900, with deaths and death rates per 1,000 estimated population.* (Stillbirths excluded).

Cities.	Population by U. S. census of 1900.	Deaths returned 1902.	Death rate per 1,000 estimated population.*
TOTAL CITIES	943,184	13,901	14.2
CITIES OVER 50,000 POPULATION	373,269	5,335	14.3
Detroit	285,704	4,692	15.6
Grand Rapids	87,565	1,143	12.5
CITIES FROM 25,000 TO 50,000 POPULATION	95,153	1,281	13.2
Bay City	27,628	343	12.4
Jackson	25,180	359	14.2
Saginaw	42,345	579	13.0
CITIES FROM 10,000 TO 25,000 POPULATION	212,390	3,066	14.0
Alpena	11,802	123	10.2
Ann Arbor	14,509	236	16.2
Battle Creek	18,563	338	16.6
Flint	13,103	194	13.9
Ishpeming	13,255	187	15.0
Kalamazoo	24,404	404	14.9
Lansing	16,485	231	12.6
Manistee	14,260	133	9.9
Marquette	10,058	134	12.9
Menominee	12,818	141	11.8
Muskegon	20,818	250	12.0
Port Huron	19,158	261	13.3
Sault Ste. Marie	10,538	243	22.1
West Bay City	13,119	191	14.6
CITIES FROM 5,000 TO 10,000 POPULATION	153,006	2,219	14.0
Adrian	9,654	160	15.7
Benton Harbor	6,562	77	11.6
Cadillac	5,997	76	11.8
Cheboygan	6,489	78	11.8
Coldwater	6,216	90	14.5
Escanaba	9,549	180	17.4
Holland	7,790	80	9.5
Ionia	5,209	61	11.7
Iron Mountian	9,242	114	12.8
Ironwood	9,705	184	18.7
Ludington	7,166	63	8.7
Monroe	5,043	63	12.2
Mt. Clemens	6,576	115	16.8
Negaunee	6,935	76	11.1
Owosso	8,696	104	11.7
Petoskey	5,285	95	18.1
Pontiac	9,769	170	16.5
St. Joseph	5,155	54	10.3
Traverse City	9,407	181	17.5
Wyandotte	5,183	97	18.3
Ypsilanti	7,378	96	12.8
CITIES UNDER 5,000 POPULATION	108,866	1,500	13.4
Albion	4,519	79	16.7
AuSable	1,116	14	13.8
Belding	3,282	34	9.8
Bessemer	3,911	75	21.4
Big Rapids	4,686	75	15.7
Charlotte	4,092	65	14.7
Clare	1,326	11	8.0
Corunna	1,510	27	17.4
Crystal Falls	3,231	35	11.3
Dowagiac	4,151	55	12.9
East Tawas	1,736	12	6.7
Eaton Rapids	2,103	22	10.2
Gladstone	3,380	41	11.9
Gladwin	775	7	7.5
Grand Haven	4,743	50	10.0
Grand Ledge	2,161	28	12.2
Greenville	3,381	39	11.5
Harrison	647	6	10.1
Hastings	3,172	41	12.2
Hillsdale	4,151	64	14.3
Hudson	2,403	30	12.7
Lapeer	3,297	57	16.9
Mackinac Island	665	10	14.3
Manistique	4,126	43	9.9
Marine City	3,829	62	16.3
Marshall	4,370	64	14.7
Mason	1,828	36	19.0
Midland	2,363	39	16.0
Mt. Pleasant	3,662	45	11.0
Niles	4,287	58	13.0
North Muskegon	513	5	10.6
Norway	4,170	58	12.8
St. Clair	2,543	32	12.3
St. Ignace	2,271	35	16.1
St. Louis	1,989	42	18.7
Stanton	1,234	22	18.7
Sturgis	2,465	28	11.1
Tawas City	1,228	13	10.5
Three Rivers	3,550	41	11.0

*Population estimated on basis of average annual increase between the U. S. census of 1900 and State census of 1904.

SECTION II.—CAUSES OF DEATH IN MICHIGAN DURING THE YEAR 1902.

The most important part of a registration report consists of the statistics relating especially to individual causes of death, because, without a knowledge of the prevalence of different diseases, intelligent efforts cannot be made for their restriction and prevention on the part of sanitary authorities; or, if such efforts are made, it cannot be definitely known with what measure of success or failure they have been attended. Accurate vital statistics are considered absolutely essential instruments of modern sanitary progress, and no class of information collected under this head is of such paramount importance as the knowledge of the mortality from individual diseases and groups of diseases.

A tabular exhibition of the deaths and death rates from each cause of death in Michigan for the year 1902, according to the Bertillon classification, may be found in Table 16, and a condensed list, showing the mortality by the geographical sections of the State for the months of the year and also for the various age periods is given in Table 17.

Examination of the deaths recorded in Table 16 will show that many of the causes are quite insignificant as regards number, and that very little sacrifice of statistical completeness would be made by their entire omission or rather inclusion under some more general title. While the number of titles should be abbreviated, the general outline of the classification in its extended form should be scrupulously preserved, so that comparisons may be accurately made. This cannot be done when certain diseases are left out of their proper positions by being relegated to the unclassified list at the end of the table, as the proportion of the preceding groups is thereby destroyed. Hence Table 17 was devised for the purpose of showing the general relatives of the causes of death in the State during the year in a correct manner, but greatly abridged from the longer classification.

Table 16.—Deaths in Michigan during the year 1902, according to the detailed international classification of causes of death, with rates per 100,000 estimated population.

Classification number.	Causes of death.	Number of deaths, 1902.	Death rates per 100,000 population.
	ALL CAUSES	32,472	1,271.3
	GENERAL DISEASES.		
	Epidemic diseases	*2,670*	*107.9*
1	Typhoid fever	584	23.6
	Typho-malarial fever	24	1.0
2	Typhus fever	.....	.....
3	Relapsing fever	.....	.....
4	Malarial fever	89	3.6
5	Smallpox	42	1.7
6	Measles	238	9.6
7	Scarlet fever	277	11.2
8	Whooping cough	289	11.7
	Diphtheria	396	16.0
9	Croup	43	1.7
	Membranous croup	65	2.6
10	Influenza	335	13.5
11	Miliary fever	.....	.....
12	Asiatic cholera	.....	.....
13	Cholera nostras	36	1.5
14	Dysentery	136	5.5
15	Bubonic plague	.....	.....
16	Yellow fever	.....	.....
17	Leprosy	.....	.....
18	Erysipelas	100	4.0
	Chicken pox	6	0.2
19	German measles	.....	.....
	Mumps	10	0.4
	II. Other General Diseases	*5,053*	*204.1*
20	Septicemia	128	5.2
21	Glanders	.....	.....
22	Malignant pustule	1	0.0
23	Rabies	5	0.2
24	Actinomycosis	1	0.0
25	Pellagra	.....	.....
	Tuberculosis	*2,445*	*98.8*
26	Larynx	19	0.8
27	Lungs	2,088	84.3
28	Meninges	105	4.2
29	Abdominal	114	4.6
30	Pott's disease	24	1.0
31	Tuberculous abscess	3	0.1
32	White swelling	18	0.7
33	Other organs	37	1.5
34	General	37	1.5
35	Scrofula	17	0.7
36, 38	Venereal diseases	114	4.6
	Cancer	*1,483*	*59.9*
39	Mouth	50	2.0
40	Stomach and liver	629	25.4
41	Intestines	130	5.3
42	Genital organs	214	8.6
43	Breast	132	5.3
44	Skin	67	2.7
45	Other organs	261	10.5
46	Tumors	39	1.6
47, 48	Rheumatism	193	7.8
49	Scurvey	1	0.0
50	Diabetes	289	11.7
51	Exophthalmic goiter	31	1.3
52	Addison's disease	12	0.5
53, 54	Anemia, leukemia	190	7.7
55	Other general diseases	8	0.3
56	Alcoholism	73	2.9
57, 59	Chronic poisonings	23	0.9
	LOCAL DISEASES.		
	III. Diseases of Nervous System	*3,809*	*153.9*
60	Encephalitis	66	2.7
61	Meningitis	384	15.5
62	Locomotor ataxia	56	2.3

Table 16.—Continued.—Deaths in Michigan during the year 1902, according to the tailed international classification of causes of death, with rates per 100,000 estim population.

Classification number.	Causes of death.	Number of deaths, 1902.	D rat 10 pc t
63	Other diseases of spinal cord	136	
64	Apoplexy	1,249	
65	Softening of brain	88	
66	Paralysis	760	
67	General paralysis of insane	143	
68	Other forms of mental disease	80	
(74)	Other diseases of the brain	65	
69	Epilepsy	152	
70, 71	Convulsions	473	
72	Tetanus	33	
73, 75, 76	Other diseases of nervous system	124	
	IV. Diseases of Circulatory System	*3,593*	
77	Pericarditis	45	
78	Endocarditis	129	
79	Heart disease	2,910	
80	Angina pectoris	218	
81	Diseases of arteries	174	
82	Embolism and thrombosis	60	
83	Diseases of veins	7	
84	Diseases of lymphatics	7	
85, 86	Other diseases of circulatory system	43	
	V. Diseases of Respiratory System	*4,041*	
88	Laryngitis	27	
	Other diseases of larynx	21	
89	Diseases of thyroid body	4	
90	Acute bronchitis	486	
91	Chronic bronchitis	326	
92	Bronchopneumonia	502	
93	Pneumonia	2,135	
94	Pleurisy	104	
95	Congestion of lungs	192	
96	Gangrene of lungs	12	
97, 98	Asthma and Emphysema	105	
87, 99	Hemorrhage of lungs	36	
	Other diseases of respiratory system	91	
	VI. Diseases of Digestive System	*4,011*	
100	Diseases of mouth	22	
101, 102	Tonsilitis	22	
	Other diseases of pharynx	36	
103	Ulcer of stomach	76	
104	Gastritis	222	
	Other diseases of stomach	267	
	Dentition	4	
105	Diarrhea and enteritis (under 2 years)	1,400	
106	Diarrhea and enteritis (over 2 years)	457	
108	Hernia	96	
	Obstruction of intestines	218	
107, 109	Other diseases of intestines	91	
110	Acute yellow atrophy of liver	18	
111	Hydatid tumor of liver	3	
112	Cirrhosis of liver	234	
113	Biliary calculi	67	
114	Other diseases of liver	242	
115	Diseases of spleen	11	
116	Peritonitis	246	
118	Appendicitis	273	
117	Other diseases of digestive system	6	
	VII. Diseases of Genito-urinary System	*1,870*	
119	Acute nephritis	89	
120	Bright's disease	1,198	
121	Other diseases of kidneys	112	
122	Calculi of urinary tract	23	
123	Diseases of bladder	126	
129	Uterine tumor	55	
127, 128, 130	Other diseases of uterus	63	
131	Ovarian tumor	44	
124, 126	Diseases of tubes	16	
132, 133	Other diseases of genito-urinary system	144	

Table 16.—Concluded.—Deaths in Michigan during the year 1902, according to the detailed international classification of causes of death, with rates per 100,000 estimated population.

Classification number.	Causes of death.	Number of deaths. 1902.	Death rates per 100,000 population.
	VIII. Childbirth	*468*	*18.9*
137	Puerperal septicemia	213	8.6
138	Puerperal convulsions	83	3.4
134, 136, 139, 141	Other causes incident to childbirth	172	6.9
	IX. Diseases of skin	*167*	*6.7*
142	Gangrene	89	3.6
143	Carbuncle	15	0.6
144	Abscess	34	1.4
145	Other diseases of skin	29	1.2
	X. Diseases of Locomotor System	*69*	*2.8*
146	Diseases of bones	66	2.7
147	Diseases of joints	3	0.1
148, 149	Other diseases of locomotor system	.....	.....
	XI. Malformations	*345*	*13.9*
150	Hydrocephalus	54	2.2
	Congenital malformations of heart (cyanosis)	107	4.3
	Other congenital malformations	184	7.4
	XII. Early Infancy	*1,293*	*52.2*
151, 153	Premature birth	608	24.6
	Congenital debility	685	27.7
	XIII. Old Age	*1,002*	*40.5*
154	Old age	1,002	40.5
	XIV. Violence	*2,149*	*86.8*
	Suicide	*244*	*9.9*
155	Poison	77	3.1
156	Asphyxia	3	0.1
157	Hanging	47	1.9
158	Drowning	24	1.0
159	Firearms	48	1.9
160	Cutting instruments	17	0.7
161	Jumping from high places	3	0.1
162	Crushing	2	0.1
163	Other or unspecified means	23	0.9
	Accidents	*1,861*	*75.2*
164, 165	Fractures and dislocations	233	9.4
167	Burns and scalds	156	6.3
169	Heat and sunstroke	9	0.4
170	Cold and freezing	14	0.6
(171)	Lightning	15	0.6
172	Drowning	265	10.7
174	Inhalation of poisonous gases	26	1.1
175	Other accidental poisonings	89	3.6
166	Accidental gunshot wounds	83	3.4
	Injuries by machinery	42	1.7
	Injuries in mines and quarries	106	4.3
	Railroad accidents and injuries	228	9.2
	Injuries by vehicles and horses	68	2.7
	Injuries by electric cars	43	1.7
166, 168, (171), 176	Suffocation	39	1.6
	Other accidental injuries	380	15.4
	Injuries at birth	65	2.6
	Homicide	*44*	*1.8*
176	Homicide	44	1.8
	XV. Ill-Defined Diseases	*932*	*37.6*
177	Dropsy	143	5.8
178, 179	Heart failure	123	5.0
	Other ill-defined diseases	383	15.5
	Unknown (or unspecified)	283	11.4

Table 17.—Causes of death in Michigan, by months and ages.

Line number.	Causes of death, 1902.	Total deaths, 1902.	Rate per 100,000 population.	Months of death, 1902. Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	ALL CAUSES	31,472	1,271.3	2,863	2,695	2,982	2,894	2,735	2,244	2,500	2,506	2,584	2,389	2,381	2,699
2	Typhoid fever	608	24.6	47	42	41	38	38	27	37	47	81	87	66	57
3	Malarial fever	89	3.6	6	5	7	9	4	6	5	10	14	11	6	6
4	Smallpox	42	1.7	4	5	3	6	1	7	4	3	.....	3	1	5
5	Measles	238	9.6	26	17	39	39	46	27	11	8	4	3	7	11
6	Scarlet fever	277	11.2	39	23	40	32	26	18	11	12	17	20	24	15
7	Whooping cough	289	11.7	19	18	27	25	27	33	28	26	24	13	25	24
8	Diphtheria and croup	504	20.4	37	36	36	29	31	29	26	36	48	76	50	70
9	Influenza	335	13.5	59	68	63	41	22	10	3	1	10	10	16	32
10	Dysentery	136	5.5	6	5	6	5	5	6	13	30	33	16	8	3
11	Erysipelas	100	4.0	15	14	14	12	5	4	5	5	5	6	7	8
12	Other epidemic diseases	52	2.1	2	4	4	3	3	2	11	12	5	2	1	3
13	Tuberculosis of lungs	2,088	84.3	189	158	204	210	208	178	156	164	169	148	129	175
14	Other forms of tuber'losis	357	14.4	20	27	24	36	40	31	31	25	28	24	39	33
15	Cancer	1,483	59.9	130	121	126	134	109	114	141	130	114	107	133	124
16	Rheumatism	193	7.8	18	22	23	10	15	14	18	13	20	14	12	14
17	Diabetes	289	11.7	29	32	18	30	27	18	13	25	26	27	21	23
18	Other general diseases	643	26.0	60	59	64	56	45	47	58	46	52	55	42	59
19	Meningitis	384	15.5	33	33	37	40	46	22	42	34	31	25	17	24
20	Apoplexy	1,249	50.5	113	113	115	100	121	108	94	88	97	78	113	109
21	Paralysis	760	30.7	75	65	53	69	73	70	61	54	53	55	69	63
22	Convulsions	473	19.1	45	36	43	56	43	28	35	32	43	30	45	37
23	Other nervous diseases	943	38.1	92	77	101	83	83	63	74	71	69	65	79	86
24	Heart disease	2,910	117.6	246	269	285	260	277	219	217	204	210	218	213	293
25	Other circulatory diseases	683	27.6	60	74	61	63	57	54	40	44	57	49	61	63
26	Bronchitis	812	32.8	100	86	95	94	77	43	58	45	40	52	45	77
27	Bronchopneumonia	502	20.3	64	43	54	65	55	33	19	16	28	31	41	53
28	Pneumonia	2,135	86.2	288	301	290	272	218	109	72	61	79	95	141	209
29	Other respiratory diseases	592	23.9	67	57	64	66	48	32	37	33	42	43	55	48
30	Diseases of stomach	565	22.8	54	33	47	63	58	51	35	44	42	48	42	48
31	Diarrhea and enteritis, under 2 years	1,400	56.6	42	40	44	49	63	61	195	326	333	137	61	49
32	Diarrhea and enteritis over 2 years	457	18.5	24	34	30	21	33	27	49	66	68	53	31	21
33	Hernia and obstruction of bowels	314	12.7	22	29	26	26	20	28	27	24	30	24	28	30
34	Cirrhosis of liver	234	9.5	21	22	17	26	24	8	18	25	21	18	22	12
35	Other liver diseases	330	13.3	35	25	24	28	29	29	25	25	27	26	22	35
36	Peritonitis	246	9.9	19	20	34	20	23	14	26	26	10	17	12	25
37	Appendicitis	273	11.0	20	20	30	16	17	24	30	37	19	22	21	17
38	Other digestive diseases	192	7.8	14	10	18	14	13	12	13	26	20	18	17	17
39	Bright's disease	1,198	48.4	109	97	129	114	106	99	94	85	82	94	82	107
40	Other genito-uri'y diseases	672	27.1	71	68	80	67	63	43	46	35	47	38	48	66
41	Puerperal septicemia	213	8.6	23	21	21	29	24	15	15	11	15	14	14	11
42	Other puerperal diseases	255	10.3	14	29	23	28	23	24	18	23	15	22	18	18
43	Skin diseases	167	6.7	19	12	16	20	16	12	16	10	6	15	16	9
44	Diseases of locomotor system	69	2.8	8	6	8	4	4	7	6	6	6	6	7	1
45	Malformations	345	13.9	25	32	40	28	29	32	25	28	31	25	24	26
46	Premature birth	608	24.6	57	45	60	49	66	48	56	50	38	50	44	45
47	Congenital debility	685	27.7	67	57	62	65	51	47	66	51	57	58	45	59
48	Old age	1,002	40.5	101	98	91	101	80	61	78	74	75	64	85	94
49	Suicides	244	9.9	13	14	29	16	26	21	22	20	12	30	17	24
50	Accidents	1,861	75.2	140	97	127	144	143	163	232	162	150	165	172	166
51	Homicides	44	1.8	3	2	1	9	1	5	3	3	4	8	2	3
52	Causes ill-defined	932	37.6	73	74	88	74	73	61	85	74	77	74	85	94

for the State and geographical sections, 1902.—STATE.

Ages of decedents, 1902.																						
Ages in years under five.					Ages by five-year periods.																	Line number.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.	
5,949	1108	506	345	254	8,162	884	598	1011	1289	1194	1051	1147	1204	1174	1280	1436	1741	2123	2204	2090	2784	100	1
5	8	4	6	10	33	42	39	96	91	74	51	38	31	29	18	19	18	13	7	3	5	1	2
1	4	3	2	1	11	9	1	8	5	6	5	6	5	4	3	4	4	5	6	2	5	....	3
10	2	2	2	....	16	....	....	4	2	3	5	3	....	3	....	....	1	2	2	1	....	....	4
55	57	25	20	10	167	33	6	8	7	3	1	6	2	1	1	2	1	....	....	....	....	....	5
21	40	45	30	28	164	84	14	3	7	2	2	....	....	....	1	....	....	....	....	....	....	....	6
167	68	20	17	6	278	8	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	2	7
33	54	49	58	40	234	171	52	21	10	6	4	..	1	....	....	1	1	1	....	....	1	1	8
26	7	1	3	4	41	5	2	3	7	8	6	6	5	14	7	15	20	35	40	49	72	....	9
26	11	10	6	3	56	2	....	1	1	....	2	3	2	5	2	6	8	7	13	13	14	1	10
18	1	....	....	....	19	1	1	2	5	1	3	5	5	5	11	7	2	10	4	9	10	....	11
14	3	2	....	1	20	6	2	1	....	1	1	....	....	3	....	1	2	5	3	4	3	....	12
24	10	5	6	4	49	14	39	196	355	330	226	201	161	122	96	82	62	63	52	28	11	1	13
43	17	5	6	7	78	26	12	33	32	42	19	22	20	10	16	14	15	8	4	5	1	....	14
1	1	3	2	....	7	....	3	7	6	16	33	46	121	143	144	195	200	215	147	90	105	5	15
3	1	1	....	....	5	7	15	12	9	5	12	8	6	8	9	13	18	17	17	13	19	....	16
3	1	3	2	2	11	15	18	19	13	13	9	11	17	10	16	25	23	34	32	9	14	....	17
111	9	5	5	2	132	8	4	17	29	32	35	45	48	42	44	37	43	42	28	28	22	7	18
124	56	19	13	9	221	44	24	20	9	12	7	9	8	7	7	4	3	2	4	2	....	1	19
36	12	3	....	....	51	5	4	9	12	10	12	22	39	48	73	92	142	175	178	165	207	5	20
1	1	....	2	2	6	2	2	2	6	7	4	11	13	20	24	46	53	118	128	138	178	2	21
402	29	14	6	1	452	6	....	3	3	3	1	....	2	....	1	....	....	....	1	....	1	....	22
67	18	8	9	6	108	35	33	25	25	29	36	59	72	54	61	44	70	92	71	65	60	4	23
37	6	2	2	2	49	32	45	46	49	40	53	72	107	118	167	228	339	362	442	367	374	3	24
29	....	3	....	4	36	13	20	12	15	14	19	21	17	30	44	45	66	89	75	71	95	1	25
299	75	20	8	3	405	8	3	8	5	6	5	9	10	10	10	13	28	51	60	77	101	3	26
209	78	28	11	7	333	16	3	5	3	5	5	3	5	4	4	13	21	16	19	21	25	1	27
457	147	55	27	24	710	55	50	66	68	54	54	82	75	112	106	86	101	125	119	119	147	6	28
108	14	8	9	5	144	16	3	22	24	24	18	16	28	23	28	24	35	48	51	38	47	3	29
157	16	4	4	4	185	3	3	2	10	10	13	9	18	21	28	33	30	41	39	55	65	2	30
1,169	230	....	....	....	1,399	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	31
....	....	85	27	16	128	15	11	13	14	10	10	12	9	10	16	17	29	32	39	40	49	3	32
36	10	5	5	5	61	8	7	10	11	7	12	10	11	19	21	15	23	28	27	18	25	1	33
1	1	....	....	1	3	1	....	1	2	5	6	11	8	13	28	34	27	33	35	14	13	....	34
16	3	....	2	1	22	6	....	2	8	12	15	13	20	21	33	27	40	32	29	27	23	....	35
19	1	....	....	1	21	14	18	18	26	21	27	18	16	13	6	8	8	11	5	8	5	1	36
1	....	....	3	2	6	27	39	40	38	22	23	13	12	13	8	7	4	4	2	3	1	2	37
51	13	7	4	2	77	6	3	11	5	6	8	8	5	5	3	6	5	7	13	11	13	..	38
23	4	1	4	4	36	9	18	22	24	32	41	46	47	56	90	103	129	161	146	146	113	..	39
22	1	5	2	1	31	6	9	18	27	44	51	43	44	31	22	30	26	35	75	90	79	1	40
....	....	....	....	....	....	....	....	20	53	48	43	36	10	2	....	....	....	..	..	..	..	1	41
....	....	....	....	....	....	....	....	28	47	48	47	48	32	5	..	....	..	..	..	..	..	..	42
34	2	1	1	....	38	1	....	....	5	1	2	1	4	5	5	9	7	12	22	10	15	1	43
11	3	1	1	....	21	3	4	2	2	1	2	3	2	2	2	4	2	4	1	1	.	.	44
318	8	5	..	....	331	3	4	1	2	1	....	1	.	1	.	..	1						45
608	....	....	....	....	608	....	....	....	..	.	....			....				.	.		.		46
685	....	....	....	....	685	....	....	....	....	..	.	.	.	.		.							47
....	....	....	....	....	....	....	....	....	....	....	..	..	.	....	.	....	15	30	110	99	132	5	48
....	....	....	....	....	....	....	..	12	22	23	18	23	27	28	17	10	19	14	9	2	4	3	49
122	48	38	32	31	272	10	79	140	160	145	95	117	115	90	83	73	47	43	70	11	100	34	50
....	1	....	1	....	2	..	1	3	3	2	2	7	6	1	6	1	.	2	2			1	51
346	22	11	6	5	400	16	3	9	16	10	8	34	18	11	31	34	60	50	74	75	108	7	52

Table 17.—Continued.—Causes of death in Michigan, by months and age

	Causes of death, 1902.	Total deaths, 1902.	Rate per 100,000 population.	Months of death, 1902.											
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	D
1	ALL CAUSES	3,487	1,299.0	250	236	292	284	284	231	270	351	395	307	284	3
2	Typhoid fever	80	29.8	5	6	4	6	6	1	4	4	14	13	11	
3	Malarial fever	2	0.7	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	...
4	Smallpox	9	3.4	1	.....	1	.....	.....	2	.....	2	.....	.....	.....	
5	Measles	37	13.8	6	1	1	2	3	6	2	4	3	...	2	
6	Scarlet fever	45	16.8	7	5	7	4	3	2	3	4	2	2	6	...
7	Whooping cough	20	7.5	1	4	1	2	.....	1	.....	2	6	1	1	
8	Diphtheria and croup	87	32.4	3	5	10	4	3	11	7	5	4	15	9	
9	Influenza	16	6.0	1	3	2	3	1	.....	.....	1	1	.....	1	
10	Dysentery	15	5.6	.....	.....	2	.....	.....	2	1	5	1	3	1	...
11	Erysipelas	5	1.9	.....	.....	.....	.....	.....	.....	2	.....	.....	2	.....	
12	Other epidemic diseases	8	3.0	.....	.....	1	1	.....	.....	3	2	1	.....	.....	...
13	Tuberculosis of lungs	227	84.6	15	17	25	14	17	21	21	19	22	19	21	
14	Other forms of tuber'losis	58	21.6	5	6	5	7	3	3	1	4	4	5	5	
15	Cancer	109	40.6	7	7	10	15	3	7	8	6	11	10	11	
16	Rheumatism	12	4.5	1	1	1	.....	1	1	2	2	2	1	.....	...
17	Diabetes	25	9.3	3	1	1	1	3	1	5	.....	4	3	.....	
18	Other general diseases	69	25.7	4	7	8	4	6	5	6	5	6	5	6	
19	Meningitis	47	17.5	2	3	4	6	4	4	3	8	.....	7	2	
20	Apoplexy	57	21.2	3	6	5	3	4	5	5	3	9	1	4	
21	Paralysis	30	11.2	4	1	3	3	4	.....	3	3	3	1	3	
22	Convulsions	94	35.0	12	8	7	17	10	7	2	7	8	5	4	
23	Other nervous diseases	70	26.1	6	5	4	9	7	4	5	7	6	7	2	
24	Heart disease	126	46.9	6	10	14	11	12	10	13	9	12	10	11	
25	Other circulatory diseases	41	15.3	4	4	2	3	8	2	1	.....	4	3	6	
26	Bronchitis	97	36.1	8	9	10	11	6	4	10	12	10	4	6	
27	Bronchopneumonia	74	27.6	4	4	5	8	7	4	3	1	10	8	8	
28	Pneumonia	261	97.2	18	24	25	36	41	20	8	14	15	13	22	
29	Other respiratory diseases	63	23.5	5	3	8	6	3	4	4	3	8	6	8	
30	Diseases of stomach	31	11.5	4	.....	4	2	4	1	1	2	3	1	4	
31	Diarrhea and enteritis under 2 years	351	130.8	7	7	5	8	16	11	31	105	100	32	16	
32	Diarrhea and enteritis over 2 years	48	17.9	3	2	3	2	3	3	4	8	12	5	2	
33	Hernia and obstruction of bowels	31	11.5	1	3	5	1	1	2	3	3	1	2	4	
34	Cirrhosis of liver	15	5.6	.....	2	.....	1	3	.....	.....	.....	2	2	4	
35	Other liver diseases	22	8.2	4	1	4	2	2	.....	1	1	.....	.....	3	
36	Peritonitis	20	7.5	2	2	6	3	1	.....	.....	2	2	1	.....	
37	Appendicitis	27	10.1	.....	1	1	.....	1	2	5	4	2	3	5	
38	Other digestive diseases	25	9.3	3	2	1	1	1	1	3	3	3	1	2	
39	Bright's disease	77	28.7	10	4	10	6	9	6	4	6	7	4	5	
40	Other genito-uri'y diseases	40	14.9	4	5	1	3	4	3	4	2	2	5	2	
41	Puerperal septicemia	20	7.5	.....	1	.....	4	6	2	1	1	3	2	.....	
42	Other puerperal diseases	24	8.9	1	1	1	3	5	2	.....	2	3	4	2	
43	Skin diseases	13	4.8	.....	.....	2	2	.....	.....	2	.....	1	4	2	
44	Diseases of locomotor system	10	3.7	.....	.....	3	1	.....	.....	.....	2	3	.....	1	
45	Malformations	34	12.7	1	5	5	.....	4	3	3	2	4	2	2	
46	Premature birth	110	41.0	13	8	11	10	13	8	10	11	4	7	8	
47	Congenital debility	129	48.1	14	8	16	12	8	7	7	5	16	15	7	
48	Old age	59	22.0	2	6	5	7	5	3	4	8	5	5	5	
49	Suicides	14	5.2	1	2	.....	1	.....	2	1	1	1	3	1	
50	Accidents	414	154.2	35	24	27	24	30	42	47	35	35	46	41	
51	Homicides	7	2.6	2	.....	.....	.....	1	1	.....	.....	1	1	.....	
52	Causes ill-defined	182	67.8	11	12	16	15	12	5	17	16	19	17	18	

for the State and geographical sections, 1902.—Upper Peninsula.

Ages of decedents, 1902.																						
Ages in years under five.					Ages by five year periods.																	
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.	Line number.
1,104	192	85	48	48	1,477	151	77	110	177	189	147	165	159	138	111	95	98	117	91	78	84	23	1
2	3	....	....	1	6	9	4	6	19	13	10	4	2	3	....	2	....	....	....	1	1	....	2
....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	3
3	....	1	1	....	5	....	....	....	....	1	3	....	....	....	....	....	....	....	....	....	....	....	4
9	11	6	1	2	29	7	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5
3	10	6	3	5	27	14	3	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	6
12	5	....	1	1	19	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	7
4	10	9	13	6	42	34	9	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	8
1	....	....	....	2	3	2	2	....	1	2	....	....	....	3	....	....	....	....	1	1	1	....	9
5	3	....	....	....	8	....	....	....	....	....	....	1	....	....	1	2	1	2	....	....	....	....	10
3	....	....	....	....	3	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	11
3	....	....	....	....	3	2	....	....	....	....	....	....	....	....	2	....	....	1	....	....	....	....	12
3	1	2	2	....	8	3	5	16	42	40	25	27	24	18	7	5	2	3	2	....	....	....	13
14	8	....	....	3	25	10	3	2	5	4	....	3	4	1	....	1	....	....	....	....	....	....	14
....	....	....	1	....	1	....	....	....	....	3	5	7	11	12	10	15	14	17	6	6	2	....	15
....	....	....	....	....	....	1	....	1	1	....	1	1	....	....	1	1	....	3	....	2	....	....	16
....	....	....	1	1	2	1	2	3	1	....	....	2	3	....	2	....	3	2	3	1	....	....	17
5	1	1	2	1	10	1	1	1	3	3	3	8	5	9	10	5	4	4	2	....	....	....	18
16	6	1	2	....	25	7	5	4	2	1	....	....	1	1	....	....	....	1	....	....	....	....	19
2	2	....	....	....	4	....	....	2	2	....	2	3	2	3	3	4	6	9	3	4	9	1	20
....	....	....	....	....	....	1	....	....	....	1	....	....	2	1	2	1	4	3	7	5	3	....	21
21	7	1	1	1	91	....	....	....	1	1	....	....	1	....	....	....	....	....	....	....	....	....	22
9	....	1	2	1	13	5	2	3	1	3	5	4	9	7	2	....	2	7	3	1	....	3	23
....	1	....	....	....	1	1	6	4	4	4	7	9	7	10	15	10	13	12	11	8	4	....	24
4	....	....	....	....	4	1	2	2	....	3	....	2	....	4	5	4	3	3	4	1	3	....	25
58	15	1	1	1	76	2	....	....	....	....	1	1	....	1	....	1	3	5	2	1	4	....	26
43	11	5	2	3	64	1	....	2	1	1	1	....	....	1	....	....	....	....	1	....	2	....	27
63	24	11	2	3	103	8	7	8	15	10	11	15	13	19	13	6	6	5	4	9	7	2	28
16	2	4	1	1	24	5	1	2	3	4	2	2	3	1	2	3	5	....	1	2	1	2	29
15	....	1	....	....	16	....	....	....	....	1	....	2	1	1	1	1	2	3	....	....	3	....	30
301	49	....	....	....	350	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	31
....	....	15	5	2	22	3	3	2	....	....	2	2	2	....	1	2	1	4	1	....	2	1	32
4	2	1	....	1	8	4	1	2	2	1	2	1	3	1	1	3	....	1	....	1	....	....	33
....	1	....	....	....	1	....	....	....	....	....	....	3	....	1	3	3	1	....	2	1	....	....	34
....	1	....	....	1	2	1	....	1	2	....	3	....	4	1	2	2	2	1	....	1	....	....	35
4	1	....	....	....	5	1	....	1	....	1	2	2	2	2	....	2	....	1	....	....	....	1	36
....	....	....	....	....	....	3	3	3	5	3	1	2	2	3	....	1	....	1	....	....	....	....	37
10	5	1	....	....	16	....	1	....	1	3	2	1	....	....	....	....	....	1	....	....	....	....	38
2	....	....	....	....	2	2	2	3	2	7	4	7	4	4	3	7	10	8	5	4	3	....	39
5	....	1	....	....	6	....	1	....	2	3	5	4	5	2	....	....	....	2	3	5	2	....	40
....	....	....	....	....	....	....	....	2	4	3	7	4	....	....	....	....	....	....	....	....	....	....	41
....	....	....	....	....	....	....	....	2	2	3	5	8	3	1	....	....	....	....	....	....	....	....	42
6	....	....	....	....	6	....	....	....	....	....	....	....	....	1	....	1	....	....	2	....	3	....	43
3	....	....	....	....	3	2	1	....	....	....	....	....	....	1	....	....	....	2	1	....	....	....	44
32	....	1	....	....	33	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	45
110	....	....	....	....	110	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	46
129	....	....	....	....	129	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	47
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4	11	14	29	1	48
....	....	....	....	....	....	....	....	....	1	2	1	....	3	....	2	1	1	....	1	....	....	2	49
21	9	11	5	10	56	15	12	33	50	62	31	36	36	24	15	9	11	6	5	3	1	9	50
....	....	....	....	....	....	....	1	....	....	1	....	2	1	....	1	....	....	1	....	....	....	....	51
103	4	5	2	2	116	4	....	1	5	4	4	1	6	....	8	3	4	5	10	7	4	....	52

Table 17.—Continued.—Causes of death in Michigan, by months and ages.

Line number.	Causes of death, 1902.	Total deaths, 1902.	Rate per 100,000 population.	Months of death, 1902.											
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	ALL CAUSES	3,278	1,060.4	290	275	311	292	282	210	240	262	282	278	279	277
2	Typhoid fever	56	18.1	4	3	2	1	7	2	4	3	10	9	8	3
3	Malarial fever	12	3.9	.....	.....	1	1	.....	1	2	1	2	1	2	1
4	Smallpox	12	3.9	1	2	...	2	1	1	3	.....	.....	1	.....	1
5	Measles	10	3.2	.....	.....	.....	1	2	1	.....	1	.....	.....	3	2
6	Scarlet fever	35	11.3	9	1	4	2	1	4	.....	3	3	3	2	3
7	Whooping cough	28	9.1	4	...	2	2	4	2	3	3	2	1	4	1
8	Diphtheria and croup	59	19.1	3	4	7	4	6	4	3	3	1	12	6	6
9	Influenza	32	10.4	5	4	6	1	1	1	2	.....	2	2	2	6
10	Dysentery	13	4.2	.....	.....	.....	.....	1	.....	3	2	5	1	1	.....
11	Erysipelas	5	1.6	1	.....	.....	2	.....	.....	.....	.....	.....	1	.....	1
12	Other epidemic diseases	7	2.3	.....	1	.....	.....	1	1	.....	1	2	.....	.....	1
13	Tuberculosis of lungs	222	71.8	14	20	24	25	22	16	13	22	27	16	11	12
14	Other forms tuberculosis	26	8.4	5	2	3	1	4	1	1	2	1	2	3	1
15	Cancer	113	36.6	8	6	7	9	8	8	12	15	7	14	13	6
16	Rheumatism	20	6.5	3	2	2	1	1	2	3	1	1	2	.....	2
17	Diabetes	27	8.7	4	5	1	2	4	.....	.....	5	4	1	.....	1
18	Other general diseases	52	16.8	3	6	5	6	2	2	4	3	6	2	6	7
19	Meningitis	46	14.9	5	4	3	9	7	1	2	4	1	3	4	3
20	Apoplexy	88	28.5	6	12	18	4	10	8	4	3	9	5	7	2
21	Paralysis	63	20.4	2	5	7	7	3	8	4	5	3	4	8	7
22	Convulsions	46	14.9	4	5	2	5	4	1	2	4	6	4	4	5
23	Other nervous diseases	102	33.0	14	6	9	11	9	5	4	12	4	11	12	5
24	Heart disease	243	78.6	20	26	23	19	23	18	24	18	18	14	15	25
25	Other circulatory diseases	61	19.7	6	4	4	8	3	5	7	4	7	7	5	1
26	Bronchitis	81	26.2	12	7	8	8	5	3	8	5	2	4	7	12
27	Bronchopneumonia	37	12.0	4	3	3	6	1	2	3	1	4	1	4	5
28	Pneumonia	288	93.2	39	30	38	33	27	12	15	8	10	11	20	45
29	Other respiratory diseases	53	17.1	7	3	4	7	5	2	4	1	2	4	8	6
30	Diseases of stomach	72	23.3	4	5	7	6	9	5	5	4	8	6	8	5
31	Diarrhea and enteritis under 2 years	162	52.4	10	8	6	6	10	8	4	29	44	19	12	6
32	Diarrhea and enteritis over 2 years	48	15.5	3	5	3	2	1	3	7	4	5	8	5	2
33	Hernia and obstruction of bowels	29	9.4	4	6	3	1	1	3	2	3	1	1	1	3
34	Cirrhosis of liver	19	6.1	2	2	2	1	1	1	2	2	3	2	.....	1
35	Other liver diseases	29	9.4	3	3	2	1	2	3	5	1	2	3	2	2
36	Peritonitis	23	7.4	.....	1	4	2	1	1	.....	6	1	3	1	3
37	Appendicitis	19	6.1	1	2	4	.....	.....	1	2	1	4	2	2	.....
38	Other digestive diseases	19	6.1	3	1	1	.....	.....	1	1	1	2	5	4	.....
39	Bright's disease	94	30.4	7	7	12	6	10	7	9	7	4	10	7	8
40	Other genito-uri'y diseases	49	15.9	5	6	4	2	1	4	.....	2	7	5	7	6
41	Puerperal septicemia	33	10.7	5	1	1	3	4	3	5	1	1	3	3	3
42	Other puerperal diseases	51	16.5	1	3	4	6	6	5	3	5	5	4	2	7
43	Skin diseases	12	3.9	1	2	1	1	1	.....	2	.....	1	1	2	.....
44	Diseases locomotor system	10	3.2	1	2	.....	.....	.....	.....	2	2	1	1	.....	1
45	Malformations	53	17.1	4	4	8	4	4	2	3	5	8	6	2	3
46	Premature birth	87	28.1	7	11	8	7	13	4	6	5	5	9	6	6
47	Congenital debility	95	30.7	11	8	13	8	8	4	10	10	5	8	7	3
48	Old age	114	36.9	12	12	15	10	11	7	3	11	8	7	11	7
49	Suicides	24	7.8	1	.....	4	1	2	3	4	1	1	3	...	4
50	Accidents	232	75.1	13	10	13	29	20	22	21	19	12	20	27	26
51	Homicides	1	0.3	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
52	Causes ill-defined	166	53.7	9	15	13	18	15	12	14	13	15	16	15	11

for the State and geographical sections, 1902.—Northern Counties.

Ages of decedents, 1902.																						
Ages in years under five.					Ages by five-year periods.																	
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.	Line number.
782	142	55	32	26	1,037	112	77	132	139	132	108	135	116	122	137	146	160	190	171	144	196	24	1
1	1	....	....	2	4	4	6	9	5	6	1	3	8	4	1	2	....	2	....	....	....	1	2
....	....	1	....	....	1	2	1	....	1	1	....	....	2	2	....	....	....	....	1	....	1	....	3
3	1	1	1	....	6	....	....	2	....	1	1	2	....	....	....	....	....	....	....	....	....	....	4
4	2	1	1	....	8	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	5
7	3	3	3	3	19	11	3	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	6
21	4	1	1	....	27	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	7
8	4	5	6	6	29	20	5	2	2	....	1	....	....	....	....	....	....	....	....	....	....	....	8
4	1	1	....	....	6	2	....	....	3	....	2	1	1	....	2	2	4	....	2	2	5	....	9
5	2	2	....	....	9	....	....	....	....	....	....	2	....	....	....	....	1	....	....	....	1	....	10
....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	1	....	....	1	....	....	1	....	11
4	1	....	....	....	5	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	12
6	1	1	....	....	8	3	5	20	36	29	26	22	16	8	12	8	9	9	7	2	1	1	13
4	1	....	....	....	5	....	....	6	4	3	1	2	....	....	....	3	2	....	....	....	....	....	14
....	....	....	....	....	....	....	1	2	2	3	3	1	9	11	13	15	17	12	13	5	4	2	15
....	1	....	....	....	1	1	1	2	2	1	2	....	1	....	1	1	1	1	1	1	3	....	16
....	....	....	1	....	1	2	1	1	1	2	1	2	1	3	5	....	2	3	1	1	....	....	17
8	1	....	....	....	9	....	1	....	2	4	4	5	5	4	3	5	4	2	....	....	1	3	18
15	5	2	1	1	24	7	3	2	1	3	....	1	3	....	1	1	....	....	....	....	....	....	19
....	....	....	....	....	....	....	2	1	1	2	....	7	6	5	8	5	10	12	7	9	11	2	20
....	1	....	1	....	2	....	2	....	....	1	1	2	1	2	5	3	5	7	7	7	18	....	21
36	3	2	1	....	42	2	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	22
11	2	3	1	1	18	4	5	3	3	4	4	5	2	10	9	6	6	9	8	1	5	....	23
5	....	....	....	....	5	3	4	3	2	4	9	8	8	15	24	29	27	25	34	25	18	....	24
4	....	....	....	....	4	4	4	....	1	3	1	2	1	3	5	4	4	8	6	8	3	....	25
40	12	2	1	....	55	2	....	1	....	1	....	1	1	1	1	1	3	4	4	4	2	....	26
18	8	....	....	....	26	....	....	1	1	....	1	1	1	2	....	....	2	....	2	....	....	....	27
77	18	8	2	3	108	8	7	18	12	9	7	15	9	13	7	9	12	13	15	13	11	2	28
13	2	1	....	....	16	2	....	1	1	1	....	1	1	6	3	4	5	4	2	3	3	....	29
26	8	....	....	1	35	....	1	....	2	2	3	....	1	2	2	4	3	6	4	5	1	1	30
33	29	....	....	....	162	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	31
....	....	11	7	1	19	1	....	2	1	1	....	2	3	....	2	....	1	4	3	6	2	1	32
3	....	1	....	1	5	....	2	3	....	....	....	2	1	4	1	2	1	4	2	1	1	....	33
....	....	....	....	....	....	....	....	....	....	....	1	1	1	2	2	5	2	3	1	....	1	....	34
2	1	....	....	....	3	2	....	....	1	....	3	2	....	2	1	4	2	1	3	3	2	....	35
1	....	....	....	....	1	1	1	2	5	....	2	1	1	1	1	1	1	3	1	....	1	....	36
1	....	....	....	....	1	4	3	....	3	1	....	1	2	1	2	1	....	....	....	....	....	....	37
4	4	1	1	....	10	1	....	3	....	1	....	....	1	....	1	1	....	....	....	....	1	....	38
4	2	....	....	1	7	1	1	2	3	1	2	2	4	6	4	7	10	20	10	7	7	....	39
4	....	....	....	....	4	2	1	....	2	3	....	2	4	....	4	1	1	9	6	6	4	....	40
....	....	....	....	....	....	....	....	5	7	7	8	5	1	....	....	....	....	....	....	....	....	....	41
....	....	....	....	....	....	....	....	5	9	12	9	13	3	....	....	....	....	....	....	....	....	....	42
3	....	....	....	....	3	1	....	....	....	....	....	1	....	....	1	1	....	....	1	2	1	1	43
2	1	....	....	....	3	1	1	....	....	....	1	....	....	1	....	....	1	1	....	1	....	....	44
48	3	1	....	....	52	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	45
87	....	....	....	....	87	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	46
95	....	....	....	....	95	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	47
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4	8	16	21	63	2	48
....	....	....	....	....	....	....	....	2	1	5	....	2	1	3	1	2	....	3	1	....	3	....	49
12	10	5	4	6	37	11	12	27	21	18	12	13	14	8	11	12	10	6	4	3	8	5	50
....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	51
63	10	2	....	....	75	10	2	4	3	2	1	4	2	2	2	7	10	10	9	8	12	3	52

Table 17.—Continued.—Causes of death in Michigan, by months and ages.

Line number.	Causes of death, 1902.	Total deaths, 1902.	Rate per 100,000 population.	Months of deaths, 1902. Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	ALL CAUSES	5,017	1,125.2	485	461	474	453	396	376	392	362	408	384	374	452
2	Typhoid fever	86	19.3	6	9	6	3	2	7	4	9	13	13	6	8
3	Malarial fever	24	5.4	2	2	1	3	3	2	...	2	6	1	2	...
4	Smallpox	8	1.8	1	1	...	3	...	1	1	1	...	...	...	...
5	Measles	28	6.3	...	1	4	9	8	5	...	...	...	...	...	1
6	Scarlet fever	39	8.7	5	3	4	7	2	2	1	2	5	3	3	2
7	Whooping cough	60	13.5	3	7	4	3	4	8	6	4	4	4	8	5
8	Diphtheria and croup	55	12.3	5	7	4	4	3	1	8	1	3	9	3	7
9	Influenza	52	11.7	16	10	5	11	1	2	...	...	1	1	1	4
10	Dysentery	19	4.3	2	2	1	1	1	...	...	1	6	3	2	...
11	Erysipelas	16	3.6	1	1	3	...	3	1	1	2	1	...	2	1
12	Other epidemic diseases	7	1.6	...	...	...	...	1	...	1	4	1	...	...	...
13	Tuberculosis of lungs	366	82.1	36	26	36	37	34	39	24	28	27	24	24	31
14	Other forms of tuber'losis	48	10.8	...	6	2	5	8	4	4	...	6	4	7	2
15	Cancer	242	54.3	26	22	24	20	22	12	24	13	21	15	17	26
16	Rheumatism	31	7.0	3	7	4	1	...	...	3	1	3	1	3	5
17	Diabetes	52	11.7	0	6	2	6	5	2	1	4	5	8	2	5
18	Other general diseases	86	19.3	8	6	8	9	10	4	7	6	6	9	2	11
19	Meningitis	53	11.9	6	5	3	6	5	3	9	4	3	2	4	3
20	Apoplexy	201	45.1	17	18	20	10	18	11	17	12	15	19	22	22
21	Paralysis	140	31.4	14	13	13	12	16	7	10	13	12	8	15	7
22	Convulsions	72	16.1	5	5	10	7	8	4	9	3	7	5	4	5
23	Other nervous diseases	148	33.2	16	12	18	17	8	15	13	5	12	8	13	11
24	Heart disease	462	103.6	46	44	52	44	33	37	29	34	32	40	30	41
25	Other circulatory diseases	107	24.0	9	14	6	10	8	12	5	10	7	5	7	14
26	Bronchitis	109	24.4	18	11	8	12	9	7	8	2	5	10	9	10
27	Bronchopneumonia	71	15.9	14	7	12	8	4	5	1	3	3	4	1	9
28	Pneumonia	355	79.6	46	66	56	42	23	18	14	5	7	16	26	36
29	Other respiratory diseases	89	20.0	14	11	7	9	9	9	...	3	9	4	6	8
30	Diseases of stomach	88	19.7	8	3	7	9	6	11	8	6	5	9	7	9
31	Diarrhea and enteritis under 2 years	170	38.1	5	3	5	7	4	5	14	43	47	26	6	5
32	Diarrhea and enteritis over 2 years	75	16.8	3	4	7	2	7	4	12	12	12	6	4	2
33	Hernia and obstruction of bowels	63	14.1	4	6	4	3	4	4	5	5	10	4	8	6
34	Cirrhosis of liver	42	9.4	3	2	4	4	4	3	1	5	5	5	5	1
35	Other liver diseases	54	12.1	6	5	3	7	6	3	5	5	4	3	1	6
36	Peritonitis	60	13.5	4	3	6	2	7	4	10	5	2	4	5	8
37	Appendicitis	60	13.5	4	6	6	2	4	4	4	14	3	3	5	5
38	Other digestive diseases	38	8.5	1	2	5	6	1	2	2	8	2	2	4	3
39	Bright's disease	196	44.0	15	16	21	21	18	18	20	12	13	13	15	14
40	Other genito-uri'y diseases	106	23.8	10	7	12	8	12	5	8	5	8	10	5	16
41	Puerperal septicemia	50	11.2	4	7	5	6	3	5	2	2	3	3	5	5
42	Other puerperal diseases	41	9.2	3	5	2	4	2	6	2	3	2	3	4	5
43	Skin diseases	28	6.3	2	5	...	4	...	2	3	3	...	3	3	3
44	Diseases locomotor system	12	2.7	1	3	1	1	...	...	1	1	1	1	2	...
45	Malformations	71	15.9	4	5	11	4	4	7	8	8	6	6	5	3
46	Premature birth	102	22.9	11	7	9	11	12	7	8	6	5	8	7	11
47	Congenital debility	84	18.8	8	6	9	5	2	8	10	6	8	8	5	9
48	Old age	199	44.6	26	14	12	18	15	16	25	9	11	14	20	19
49	Suicides	44	9.9	4	4	3	1	4	7	4	1	5	3	2	6
50	Accidents	265	59.4	21	14	19	20	20	27	29	19	27	22	24	23
51	Homicides	8	1.8	...	...	...	2	...	1	...	1	...	4	...	...
52	Causes ill-defined	135	30.3	13	12	10	7	13	9	11	11	9	8	13	19

for the State and geographical sections, 1902.—Central Counties.

Ages of decedents, 1902.																						
Ages in years under five.					Ages by five-year periods.																	Line number.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.	
893	154	84	54	32	1,217	127	114	190	208	176	154	182	183	208	193	228	284	371	377	342	449	14	1
....	1	....	3	....	4	8	9	10	13	9	3	5	5	3	5	5	4	....	2	....	1	....	2
....	2	1	1	....	4	....	....	4	....	2	1	1	2	2	1	1	2	2	1	....	1	....	3
2	....	....	....	....	2	....	....	2	....	1	....	....	....	....	....	....	....	2	1	....	....	....	4
9	5	2	4	....	20	3	2	1	1	....	....	1	....	....	....	....	....	....	....	....	....	....	5
2	6	5	5	4	22	12	1	1	2	1	....	....	....	....	....	....	....	....	....	....	....	....	6
36	14	3	2	1	56	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	7
4	6	6	6	5	27	16	6	3	1	....	1	....	....	....	....	....	....	....	....	....	1	....	8
7	....	....	....	....	7	1	....	1	....	....	1	1	....	1	3	3	4	8	4	10	8	....	9
3	1	2	....	....	6	1	....	....	....	....	1	....	1	....	....	1	2	2	....	3	1	1	10
4	....	....	....	....	4	....	1	....	1	....	1	1	2	....	1	....	....	2	2	....	1	....	11
....	....	....	....	....	....	2	....	1	....	....	....	....	....	1	....	....	....	1	1	....	1	....	12
1	3	....	2	1	7	1	8	41	62	57	45	31	24	29	14	10	13	12	6	5	1	....	13
5	1	1	....	1	8	1	3	4	6	5	....	3	5	2	5	....	3	1	1	1	....	....	14
....	....	1	....	....	1	....	1	2	2	5	5	8	13	27	24	28	28	40	25	15	17	1	15
1	....	....	....	....	1	1	2	1	....	1	1	1	1	1	....	4	3	2	6	2	4	....	16
1	....	1	....	....	2	2	5	4	3	2	1	2	3	2	5	3	4	3	5	1	5	....	17
7	2	....	....	....	9	2	1	7	6	5	2	7	11	6	5	2	8	5	2	6	2	....	18
19	9	5	....	2	35	6	1	4	....	....	2	....	....	1	1	....	....	....	1	1	....	1	19
9	2	....	....	....	11	1	1	1	5	2	1	4	2	10	7	28	17	35	30	15	31	....	20
....	....	....	....	1	1	1	....	....	2	....	....	1	3	3	3	11	11	23	24	27	30	....	21
57	3	5	1	....	66	1	....	1	1	1	....	....	1	....	....	....	....	....	1	....	....	....	22
16	5	2	2	1	26	10	3	6	1	3	5	9	9	4	11	9	8	21	6	11	6	....	23
3	....	....	....	....	3	3	5	12	4	6	3	12	21	20	18	34	53	66	83	57	62	....	24
4	....	2	....	2	8	1	4	2	3	2	1	4	3	7	5	10	10	15	13	7	12	....	25
42	5	3	1	1	52	....	1	....	2	1	....	2	1	1	3	3	4	8	9	11	10	1	26
32	5	7	....	....	44	2	....	....	....	....	1	1	....	1	....	4	4	3	3	5	3	....	27
84	27	4	9	2	126	9	13	9	9	6	11	10	12	13	14	12	15	26	19	24	26	1	28
18	1	2	1	....	22	3	....	1	4	4	3	4	1	4	3	1	9	8	9	7	6	....	29
25	2	....	1	1	29	1	....	....	2	1	2	2	2	2	3	7	2	5	6	11	13	....	30
135	35	....	....	....	170	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	31
....	....	19	4	3	26	2	1	1	1	2	1	1	1	3	3	3	7	5	6	2	10	....	32
12	5	1	2	1	21	....	2	1	2	....	4	....	3	6	3	....	3	7	8	3	....	....	33
....	....	....	....	....	....	....	....	....	1	....	1	1	2	5	5	5	6	4	6	3	3	....	34
4	1	....	....	....	5	1	....	....	2	1	3	3	1	2	12	5	5	3	6	2	3	....	35
3	....	....	....	....	3	4	4	7	7	8	4	6	3	2	1	2	3	2	3	....	1	....	36
....	....	....	1	....	1	6	10	15	6	2	1	2	3	5	3	2	....	2	....	1	....	1	37
11	2	3	1	1	18	1	....	1	2	....	1	1	2	....	....	1	....	....	4	3	4	....	38
4	....	....	2	1	7	1	5	2	5	4	7	12	8	12	14	12	24	26	27	19	11	....	39
4	....	....	....	....	4	....	5	3	4	8	8	6	7	8	3	4	3	7	16	14	6	....	40
....	....	....	....	....	....	....	....	3	16	11	8	8	2	1	....	....	....	....	....	....	....	1	41
....	....	....	....	....	....	....	....	6	8	4	8	8	5	2	....	....	....	....	....	....	....	....	42
2	2	....	....	....	4	....	....	....	....	....	1	....	1	3	....	1	4	1	4	3	6	....	43
1	2	....	....	....	3	1	3	....	....	....	....	1	....	....	2	1	....	1	....	....	....	....	44
64	1	1	....	....	66	2	1	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	45
102	....	....	....	....	102	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	46
84	....	....	....	....	84	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	47
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	7	20	44	125	1	48
....	....	....	....	....	....	....	....	2	2	4	6	7	4	7	1	4	5	....	....	....	2	....	49
28	4	8	6	3	49	18	15	29	19	16	8	9	14	10	11	8	10	11	9	12	14	3	50
....	1	....	....	....	1	....	....	1	....	....	1	4	1	....	....	....	....	....	....	....	....	....	51
48	1	....	....	1	50	....	1	1	2	1	1	3	4	2	4	4	8	5	8	17	22	2	52

Table 17.—Concluded.—Causes of death in Michigan, by months and ages

Line number.	Causes of death, 1902.	Total deaths, 1902.	Rate per 100,000 population.	Months of death, 1902.											
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	ALL CAUSES	19,690	1,356.0	1,838	1,723	1,905	1,865	1,773	1,427	1,598	1,531	1,499	1,420	1,444	1,667
2	Typhoid fever	386	26.6	32	24	29	28	23	17	25	31	44	52	41	40
3	Malarial fever	51	3.5	3	3	5	5	1	3	3	7	6	8	2	5
4	Smallpox	13	0.9	1	2	2	1	.....	3	.....	.....	.....	2	1	1
5	Measles	163	11.2	20	15	34	27	33	15	9	3	1	3	2	1
6	Scarlet fever	158	10.9	18	14	25	19	20	10	7	3	7	12	13	10
7	Whooping cough	181	12.5	11	7	20	18	19	22	19	17	12	7	12	17
8	Diphtheria and croup	303	20.9	26	20	15	17	19	13	8	27	40	40	32	46
9	Influenza	235	16.2	37	51	50	26	19	7	1	.....	6	7	12	19
10	Dysentery	89	6.1	4	3	3	4	3	4	9	22	21	9	4	3
11	Erysipelas	74	5.1	13	13	11	10	2	3	2	3	4	3	5	5
12	Other epidemic diseases	30	2.1	2	3	3	2	1	1	7	5	1	2	1	2
13	Tuberculosis of lungs	1,273	87.7	124	95	119	134	135	102	98	95	93	89	73	116
14	Other forms of tuber'losis	225	15.5	10	13	14	23	25	23	25	19	17	13	24	19
15	Cancer	1,019	70.2	89	86	85	90	76	87	97	96	75	68	92	78
16	Rheumatism	130	9.0	11	12	16	8	13	11	10	9	14	10	9	7
17	Diabetes	185	12.7	16	20	14	21	15	15	7	16	13	15	19	14
18	Other general diseases	436	30.0	45	40	43	37	27	36	41	32	34	39	28	34
19	Meningitis	238	16.4	20	21	27	19	30	14	28	18	27	13	7	14
20	Apoplexy	903	62.2	87	77	72	83	89	84	68	70	64	53	80	76
21	Paralysis	527	36.3	55	46	30	47	50	55	44	33	35	42	43	47
22	Convulsions	261	18.0	24	18	24	27	21	16	22	18	22	16	33	20
23	Other nervous diseases	623	42.9	56	54	70	46	59	39	52	47	47	39	52	62
24	Heart disease	2,079	143.2	174	189	196	186	209	154	151	143	148	154	157	218
25	Other circulatory diseases	474	32.6	41	52	49	42	38	35	27	30	39	34	43	44
26	Bronchitis	525	36.2	62	59	69	63	57	29	32	26	23	34	23	48
27	Bronchopneumonia	320	22.0	42	29	34	48	43	22	12	11	11	18	28	27
28	Pneumonia	1,231	84.8	185	181	171	161	127	59	35	34	47	55	73	103
29	Other respiratory diseases	387	26.7	41	40	45	44	31	17	29	26	23	29	33	29
30	Diseases of stomach	374	25.8	38	25	29	46	39	34	21	32	26	32	23	29
31	Diarrhea and enteritis under 2 years	717	49.4	20	22	28	28	33	37	146	149	142	60	27	25
32	Diarrhea and enteritis over 2 years	286	19.7	15	23	17	15	22	17	26	42	39	34	20	16
33	Hernia and obstruction of bowels	191	13.2	13	14	14	21	14	19	17	13	18	17	15	16
34	Cirrhosis of liver	158	10.9	16	16	11	20	16	4	15	18	11	9	13	9
35	Other liver diseases	225	15.5	22	16	15	18	19	23	14	18	21	20	16	23
36	Peritonitis	143	9.8	13	14	18	13	14	9	16	13	5	9	6	13
37	Appendicitis	167	11.5	15	11	19	14	12	17	19	18	10	14	9	9
38	Other digestive diseases	110	7.6	7	5	11	7	11	8	7	14	13	10	7	10
39	Bright's disease	831	57.2	77	70	86	81	69	68	61	60	58	67	55	79
40	Other genito-urin'y diseases	477	32.9	52	50	63	54	46	31	34	26	30	18	34	39
41	Puerperal septicemia	110	7.6	14	12	15	16	11	5	7	7	8	6	6	3
42	Other puerperal diseases	139	9.6	9	20	16	15	10	11	13	13	5	11	10	6
43	Skin diseases	114	7.9	16	5	13	13	15	10	9	7	4	7	9	6
44	Diseases locomotor system	37	2.5	6	1	4	2	4	7	3	1	1	4	4	.....
45	Malformations	187	12.9	16	18	16	20	17	20	11	13	13	11	15	17
46	Premature birth	309	21.3	26	19	32	21	28	29	32	28	24	26	23	21
47	Congenital debility	377	26.0	34	35	24	40	33	28	39	30	28	27	26	33
48	Old age	630	43.4	61	66	59	66	49	35	46	46	51	38	49	64
49	Suicides	162	11.2	7	8	22	13	20	9	13	17	5	21	14	13
50	Accidents	950	65.4	71	49	68	71	73	72	135	89	76	77	80	89
51	Homicides	28	1.9	1	2	1	6	.....	3	3	2	3	3	2	2
52	Causes ill-defined	449	30.9	40	35	49	34	33	35	43	34	34	33	39	40

for the State and geographical sections, 1902.—Southern Counties.

Ages of decedents 1902.																						
Ages in years under five.					Ages by five-year periods.																	
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.	Line number.
3,170	620	282	211	148	4,431	494	330	579	765	697	642	665	746	706	839	967	1199	1445	1565	1526	2055	39	1
2	3	4	3	7	19	21	20	71	54	46	37	26	16	19	12	10	14	11	5	2	3	....	2
1	2	1	1	1	6	7	....	4	4	3	3	4	1	....	2	3	2	3	4	2	3	....	3
2	1	....	....	....	3	....	....	....	2	....	1	1	....	3	....	....	1	....	1	1	....	....	4
33	39	16	14	8	110	23	4	6	6	2	1	4	2	1	1	2	1	....	....	....	....	....	5
9	21	31	19	16	96	47	7	1	4	1	1	....	....	....	1	....	....	....	....	....	....	....	6
98	45	16	13	4	176	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	7
17	34	29	33	23	136	101	32	14	7	6	2	....	1	....	....	1	1	1	....	....	....	1	8
14	6	....	3	2	25	....	....	2	3	6	3	4	4	10	2	10	12	27	33	36	58	....	9
13	5	6	6	3	33	1	....	1	1	....	1	....	1	5	1	3	4	3	13	10	12	....	10
11	1	....	....	....	12	1	....	2	4	....	1	4	2	5	8	7	2	7	2	9	8	....	11
7	2	2	....	1	12	2	1	....	....	1	1	....	....	....	....	1	2	3	2	4	1	....	12
14	5	2	2	3	26	7	21	119	215	204	130	121	97	67	63	59	38	39	37	21	9	....	13
20	7	4	6	3	40	15	6	21	17	30	18	14	11	7	11	10	10	7	3	4	1	....	14
1	1	2	1	....	5	....	1	3	2	5	20	30	88	93	97	137	141	146	103	64	82	2	15
2	....	1	....	....	3	4	12	8	6	3	8	6	4	7	7	7	14	11	10	8	12	....	16
2	1	2	....	1	6	10	10	11	8	9	7	5	10	5	4	22	14	26	23	6	9	....	17
91	5	4	3	1	104	5	1	9	18	20	26	25	27	23	26	25	27	31	24	22	19	4	18
74	36	11	10	6	137	24	15	10	6	8	5	8	4	5	5	3	3	1	3	1	....	....	19
25	8	3	....	....	36	4	1	5	4	6	9	8	29	30	55	55	109	119	138	137	156	2	20
1	....	....	1	1	3	....	....	2	4	5	3	8	7	14	14	31	33	85	90	99	127	2	21
228	16	6	3	....	253	3	....	1	1	1	1	....	....	....	....	....	....	....	....	....	1	....	22
31	11	2	4	3	51	16	23	13	20	19	22	41	52	33	39	29	54	55	54	52	49	1	23
29	5	2	2	2	40	25	30	27	39	26	34	43	71	73	110	155	243	259	314	297	290	3	24
17	....	1	....	2	20	7	10	8	11	6	17	13	13	16	29	27	49	63	52	55	77	1	25
159	43	14	5	1	222	4	2	7	3	4	4	5	8	7	6	8	18	34	45	61	85	2	26
116	54	16	9	4	199	13	3	2	1	4	2	1	4	....	4	9	15	13	13	16	20	1	27
233	78	32	14	16	373	30	23	31	32	29	25	42	41	67	72	59	68	81	81	73	103	1	28
61	9	1	7	4	82	6	2	18	16	15	13	9	23	12	20	16	16	36	39	26	37	1	29
91	6	3	3	2	105	2	2	2	6	6	8	5	14	16	20	21	23	27	29	39	48	1	30
600	117	....	....	....	717	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	31
....	....	40	11	10	61	9	7	8	12	7	7	7	3	7	10	12	20	19	29	32	35	1	32
17	3	2	3	2	27	4	2	4	7	6	6	7	4	8	16	10	19	16	17	13	24	1	33
1	....	....	....	1	2	1	....	1	1	5	4	6	5	5	18	21	18	26	26	10	9	....	34
10	....	....	2	....	12	2	....	1	3	11	6	8	15	16	18	16	31	27	20	21	18	....	35
11	....	....	....	1	12	8	13	8	16	12	19	9	10	8	4	3	4	5	1	8	3	....	36
....	....	....	2	2	4	14	23	31	24	16	21	8	5	4	3	3	4	1	2	2	1	1	37
26	2	2	2	1	33	4	2	7	2	2	5	6	2	5	2	4	5	6	9	8	8	....	38
13	2	1	2	2	20	4	10	15	14	20	28	25	31	36	59	77	85	107	98	110	92	....	39
9	1	4	2	1	17	4	2	15	19	30	38	31	28	21	15	25	22	37	50	55	67	1	40
....	....	....	....	....	....	....	....	10	26	27	20	19	7	1	....	....	....	....	....	....	....	....	41
....	....	....	....	....	....	....	....	15	28	29	25	19	21	22	....	....	....	....	....	....	....	....	42
23	....	1	1	....	25	....	....	....	5	1	1	....	3	1	4	6	3	11	15	14	25	....	43
5	5	1	1	....	12	4	3	2	2	1	1	2	2	....	....	3	1	4	....	....	....	....	44
174	4	2	....	....	180	1	2	....	1	....	....	1	....	1	....	....	1	....	....	....	....	....	45
309	....	....	....	....	309	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	46
377	....	....	....	....	377	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	47
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5	17	72	120	415	1	48
....	....	....	....	....	....	....	....	8	18	12	11	14	19	18	13	12	13	11	7	2	3	1	49
61	25	14	18	12	130	55	40	51	79	49	44	59	51	48	46	44	36	39	52	43	77	7	50
....	....	....	1	....	1	....	....	2	8	1	1	1	4	....	5	1	....	1	2	....	....	1	51
132	17	4	4	2	159	2	....	3	6	3	2	16	6	7	17	20	18	30	47	43	68	2	52

DISCUSSION OF INDIVIDUAL CAUSES OF DEATHS, 1902.

The following text is devoted to the discussion of the most important individual diseases and groups of diseases according to the condensed list as shown in Table 17, by months and ages, for the State and geographical sections into which it is divided. For convenience, a summary derived from these tables will be presented in connection with each cause.

DEATHS FROM ALL CAUSES.

The total number of deaths registered by means of certificates of deaths during the year 1902 was 31,472, corresponding to a mortality of 1,271.3 per 100,000 estimated population. This number is exclusive of 1,793 stillbirths returned as deaths. Compared with the immediately preceding years, we have:

Years.	Total deaths registered.	Death rates per 100,000 population.
1898	28,174	1,199.0
1899	32,289	1,353.4
1900	32,453	1,340.5
1901	32,834	1,339.7
1902	31,472	1,271.3

The rates more conveniently expressed as rates per 1,000 population, would be 12.0, 13.5, 13.4, 13.4 and 12.7.

The general distribution of deaths among the four geographical sections were as follows:

Geographical sections.	Total deaths, 1902.	Death rates per 1,000 population.
STATE OF MICHIGAN	31,472	12.7
UPPER PENINSULA	3,487	13.0
NORTHERN COUNTIES	3,278	10.6
CENTRAL COUNTIES	5,017	11.3
SOUTHERN COUNTIES	19,690	13.6

Nearly two-thirds of the total number of deaths occurred in the Southern counties, and the death rate of this section was somewhat higher than that of any other. This might be expected, as the Southern counties comprise the oldest portion of the State, with an age distribution of population less favorable than the newly-settled portions of the State. It is also very likely that registration is more accurate in densely-settled portions of the State.

TYPHOID FEVER.

The total number of deaths from typhoid fever compiled in this report is 608.

Following is a comparative statement of deaths and death rates from typhoid fever, according to the final compilation of the returns as given in the registration reports, for the first five years of registration of deaths under the law of 1897:

Years.	Deaths from typhoid fever.	Death rates per 100,000 population.
1898	572	24.3
1899	580	24.3
1900	869	35.9
1901	645	26.3
1902	608	24.6

It will thus be seen that the mortality from this cause was somewhat less than for the preceding year, although higher than for either the years 1898 or 1899.

The maximum number of deaths in any month, 87, occurred in October, and the least number, 27, in June. By geographical sections, the highest death rate, 29.8 per 100,000, was in the Upper Peninsula, and the lowest, 18.1, in the Northern counties. The rate of the Southern counties, 26.6, was somewhat higher than the general rate for the State.

Table 18.—Deaths from typhoid fever in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	608	24.6	47	42	41	38	38	27	37	47	81	87	66	57
Upper Peninsula	80	29.8	5	6	4	6	6	1	4	4	14	13	11	6
Northern counties	56	18.1	4	3	2	1	7	2	4	3	10	9	8	3
Central counties	86	19.3	6	9	6	3	2	7	4	9	13	13	6	8
Southern counties	386	26.6	32	24	29	28	23	17	25	31	44	52	41	40

Deaths by sex, 1902.		Deaths by ages, 1902.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
351	257	5	33	42	75	135	165	89	60	37	31	10	5

* Includes one at unknown age.

SMALLPOX.

The distribution of deaths from smallpox is shown in Table 19. Although of small numerical importance as a cause of death, the remembrance of its fatality in the past still clings around this disease, and no epidemic cause attracts so much public attention and is considered worthy of so much effort and expense for the sake of immediate restriction as smallpox among all the causes ordinarily prevalent in this State. There were 42 deaths during the year 1902, 27 in 1901, 9 in 1900, 6 in 1899, and only 1 in 1898.

Table 19.—Deaths from smallpox in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	42	1.7	4	5	3	6	1	7	4	3	.....	3	1	5
Upper Peninsula	9	3.4	1	....	1	....	.....	2	.....	2	.....	.....	.....	3
Northern counties	12	3.9	1	2	....	2	1	1	3	.....	.....	1	.....	1
Central counties	8	1.8	1	1	....	3	.....	1	1	1	.....	.....	.....	.....
Southern counties	13	0.9	1	2	2	1	.....	3	.....	.....	.....	2	1	1

Deaths by sex, 1902.		Deaths by ages, 1902.												
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
25	17	10	16	.....	16	4	5	8	3	....	3	3	.....

MEASLES.

Measles as a cause of death was considerably higher than the preceding year. There were 238 deaths returned from this cause as compared with only 79 for the year 1901. Distribution by ages, sex and months may be seen in Table 20.

SCARLET FEVER.

Scarlet fever showed a decrease of mortality for the year compared with that for 1901. There were 277 deaths returned from this cause, corresponding to an annual death rate of 11.2 per 100,000 population. The greatest number of deaths occurred in the Southern counties. The distribution is shown in Table 21.

Table 20.—Deaths from measles in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	238	9.6	26	17	39	39	46	27	11	8	4	3	7	11
Upper Peninsula	37	13.8	6	1	1	2	3	6	2	4	3	.....	2	7
Northern counties	10	3.2	....	....	....	1	2	1	.....	1	.....	.....	3	2
Central counties	28	6.3	....	1	4	9	8	5	.....	.....	.....	.....	.....	1
Southern counties	163	11.2	20	15	34	27	33	15	9	3	1	3	2	1

Deaths by sex, 1902.		Deaths by ages, 1902.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
129	109	55	167	33	200	14	10	7	3	3	1	.....	.....

Table 21.—Deaths from scarlet fever in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	277	11.2	39	23	40	32	26	18	11	12	17	20	24	15
Upper Peninsula	45	16.8	7	5	7	4	3	2	3	4	2	2	6	....
Northern counties	35	11.3	9	1	4	2	1	4	.....	3	3	3	2	3
Central counties	39	8.7	5	3	4	7	2	2	1	2	5	3	3	2
Southern counties	158	10.9	18	14	25	19	20	10	7	3	7	12	13	10

Deaths by sex, 1902.		Deaths by ages, 1902.											
Males.	Females.	Under. 1 year.	Under 5 years.	5 to 9	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
133	144	21	164	84	248	17	9	2	.....	1	.....	.....	.....

WHOOPING COUGH.

Deaths from whooping-cough increased from 163 in 1901 to 289 in 1902. Very little attention is given to this disease in the way of restriction, whose mortality is almost entirely confined to the early years of life. For exact comparisons, rates based upon susceptible populations of early age must be employed.

Table 22.—Deaths from whooping cough in Michigan in 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	289	11.7	19	18	27	25	27	33	28	26	24	13	25	24
Upper Peninsula	20	7.5	1	4	1	2	.....	1	.....	2	6	1	1	1
Northern counties	28	9.1	4	....	2	2	4	2	3	3	2	1	4	1
Central counties	60	13.5	3	7	4	3	4	8	6	4	4	4	8	5
Southern counties	181	12.5	11	7	20	18	19	22	19	17	12	7	12	17

Deaths by sex, 1902.		Deaths by ages, 1902.*												
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
123	166	167	278	8	286	1	.....	.....	.....	.....	.....	.....	.....

* Includes two at unknown age.

CAUSES OF DEATH.

DIPHTHERIA AND CROUP.

Deaths and death rates from diphtheria and croup for the past fi years were as follows:

Years.	Deaths from diphtheria and croup.	Death rates p 100,00 populati
1898	456	1
1899	435	1
1900	529	2
1901	502	2
1902	504	2

Nearly half of the deaths from these causes were of children und five years of age, and as usual the highest death rate was in the Upp Peninsula. October showed the largest number of deaths, 76, wh July had the fewest, 26.

Table 23.—Deaths from diphtheria and croup in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	D
State	504	20.4	37	36	36	29	31	29	26	36	48	76	50	
Upper Peninsula	87	32.4	3	5	10	4	3	11	7	5	4	15	9	
Northern counties	59	19.1	3	4	7	4	6	4	3	3	1	12	6	
Central counties	55	12.3	5	7	4	4	3	1	8	1	3	9	3	
Southern counties	303	20.9	26	20	15	17	19	13	8	27	40	40	32	

Deaths by sex, 1902.		Deaths by ages, 1902.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	o
277	227	33	234	171	405	73	16	4	1	1	2	.....	

* Includes one at unknown age.

INFLUENZA.

There were 335 deaths returned from influenza in Michigan during the year 1902, corresponding to a death rate of 13.5 per 100,000 population. A very great decrease is shown from the returns of the preceding year. By geographical sections, the largest number of deaths from this cause, 235, occurred in the Southern counties, and the smallest number, 16, occurred in the Upper Peninsula. Base on population, the largest death rate, 16.2 per 100,000 population, was in the Southern counties, and the smallest, 6.0 was in the Upper Peninsula.

Table 24.—Deaths from influenza in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	335	13.5	59	68	63	41	22	10	3	1	10	10	16	32
Upper Peninsula	16	6.0	1	3	2	3	1	.....	.....	1	1	.....	1	3
Northern counties	32	10.4	5	4	6	1	1	1	2	.....	2	2	2	6
Central counties	52	11.7	16	10	5	11	1	2	.....	.....	1	1	1	4
Southern counties	235	16.2	37	51	50	26	19	7	1	.....	6	7	12	19

Deaths by sex, 1902.		Deaths by ages, 1902.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
162	173	26	41	5	46	5	15	12	19	22	55	89	72

PULMONARY TUBERCULOSIS.

There were 2,088 deaths returned from pulmonary tuberculosis for the year 1902, corresponding to a death rate of 84.3 per 100,000 estimated population. The distribution of these deaths is shown by months, sex and age periods in Table 25. The greatest mortality by months from this cause was for April, with 210 deaths, and the smallest number occurred in the month of November, which month had 129 deaths.

By geographical sections, the largest number of deaths occurred in the Southern counties, which had 1,273 deaths, and the smallest number, 222, occurred in the Northern counties.

Table 25.—Deaths from tuberculosis of lungs in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	2,088	84.3	189	158	204	210	208	178	156	164	169	148	129	175
Upper peninsula	227	84.6	15	17	25	14	17	21	21	19	22	19	21	16
Northern counties	222	71.8	14	20	24	25	22	16	13	22	27	16	11	12
Central counties	366	82.1	36	26	36	37	34	39	24	28	27	24	24	31
Southern counties	1,273	87.7	124	95	119	134	135	102	98	95	93	89	73	116

Deaths by sex, 1902.		Deaths by ages, 1902.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
983	1,105	24	49	14	63	235	685	427	283	178	125	80	11

* Includes one at unknown age.

OTHER FORMS OF TUBERCULOSIS.

There were 357 deaths compiled from other forms of tuberculosis in Michigan during the year 1902, corresponding to a death rate of 14.4 per 100,000 estimated population. The distribution of these deaths by sex, months and ages is shown in Table 26.

For the State as a whole, the maximum mortality occurred during the month of May, namely, 40, and the minimum number, 20, in January.

Considered by geographical sections, the greatest mortality was in 225, was in the Southern counties, and the smallest number, 26, in the Northern counties.

Table 26.—Deaths from other forms of tuberculosis in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	357	14.4	20	27	24	36	40	31	31	25	28	24	39	32
Upper Peninsula	58	21.6	5	6	5	7	3	3	1	4	4	5	5	10
Northern counties	26	8.4	5	2	3	1	4	1	1	2	1	2	3	1
Central counties	48	10.8	....	6	2	5	8	4	4	.....	6	4	7	2
Southern counties	225	15.5	10	13	14	23	25	23	25	19	17	13	24	19

Deaths by sex, 1902.		Deaths by ages, 1902.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
172	185	43	78	26	104	45	74	41	30	30	23	9	1

CANCER.

There were 1,483 deaths compiled from cancer in Michigan during the year 1902, corresponding to a death rate of 59,9 per 100,000 population. The distribution of these deaths is shown by months, sex and age in Table 27.

For the State as a whole, the maximum mortality from this cause, 141, was in the month of July, and the minimum mortality was in the month of October, which had 107 deaths.

Considered by geographical sections, the greatest mortality was in the Southern counties, which section had 1,019 deaths, and the least was in the Upper Peninsula with only 109 deaths.

Table 27.—Deaths from cancer in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	1,483	59.9	130	121	126	134	109	114	141	130	114	107	133	124
Upper Peninsula	109	40.6	7	7	10	15	3	7	8	6	11	10	11	14
Northern counties	113	36.6	8	6	7	9	8	8	12	15	7	14	13	6
Central counties	242	54.3	26	22	24	20	22	12	24	13	21	15	17	26
Southern counties	1,019	70.2	89	86	85	90	76	87	97	96	75	68	92	78

Deaths by sex, 1902.		Deaths by ages, 1902.*												
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
628	855	1	7	.....	7	10	22	79	264	339	415	237	105

* Includes five at unknown ages.

The comparative rates for the past five years of registration as given in Table 28 would seem to show some tendency toward an increase in the death rate from cancer in this State, although the very short period of time covered by the statistics is not sufficient to base any definite opinion upon. It is unfortunate that we cannot go backward in this State for a long series of years, or, at least, for the entire time covered by the operation of the old registration law which was enacted in 1867, and from comparison of the statistics collected thereunder with our present returns be enabled to present some conclusive evidence as whether this disease is or is not increasing in prevalence in Michigan. According to statistics compiled in many parts of the world, cancer is on the increase, at least as a factor in the gross mortality. In Michigan the question presents peculiar embarrassments from the fact that the returns of deaths under the old law providing for their enumeration annually by supervisors and assessors, which law was in force from 1867 to 1897, were on a quite different basis from the physician's certificate which constitute the returns of deaths under the registration law of 1897. There was a very considerable increase in the mortality from cancer from 1897 (death rate of 32.6 per 100,000 population) to 1898 (death rate of 55.9), but it is certain that this was largely due to increased accuracy of registration in general, many deaths being recorded under the new law that would have otherwise failed to be put on record. The ratio of deaths from this disease to deaths from all causes, stillbirths excluded, shows a slight increase as may be noted in Table 28, but one which is in keeping with the fairly uniform tendency in this direction as shown by the comparison of the five-year averages in this table.

Table 28.—Ratio of deaths from cancer to deaths from all causes registered in Michigan, exclusive of stillbirths, for the years 1870-1902.

Years and periods.	Deaths from all causes, stillbirths excluded.	Deaths from cancer.	Per cent.
Years:			
1870	10,540	120	1.1
1871	9,460	105	1.1
1872	13,167	133	1.0
1873	13,964	172	1.2
1874	12,036	188	1.6
1875	11,361	203	1.8
1876	11,930	241	2.0
1877	12,199	266	2.2
1878	11,973	269	2.2
1879	13,658	272	2.0
1880	15,364	284	1.8
1881	18,547	310	1.7
1882	15,633	301	1.9
1883	16,022	383	2.4
1884	17,137	361	2.1
1885	15,638	403	2.6
1886	17,278	391	2.3
1887	18,585	453	2.4
1888	20,406	480	2.4
1889	19,113	492	2.6
1890	20,245	533	2.6
1891	20,989	534	2.5
1892	20,715	556	2.7
1893	20,963	644	3.1
1894	19,957	677	3.4
1895	21,648	757	3.5
1896	20,729	780	3.8
1897	19,150	760	4.0
1898*	28,248	1,321	4.7
1899*	32,500	1,334	4.1
1900*	32,559	1,460	4.5
1901*	32,834	1,484	4.5
1902*	31,472	1,483	4.7
Five-year periods:			
1872-76	12,496	187	1.5
1877-81	14,348	280	2.0
1882-86	16,342	368	2.3
1887-91	19,868	498	2.5
1892-96	20,802	683	3.3
1898-1902	31,523	1,416	4.5
Twenty-five year period:			
1872-96	16,771	403	2.4

* Under new law.

Classification No.	Organ affected.	Sex.	Twenty-five years, 1872-96. Average deaths.	Twenty-five years, 1872-96. Per cent.	Five years, 1872-76. Average deaths.	Five years, 1872-76. Per cent.	Five years, 1877-81. Average deaths.	Five years, 1877-81. Per cent.	Five years, 1882-86. Average deaths.	Five years, 1882-86. Per cent.	Five years, 1887-91. Average deaths.	Five years, 1887-91. Per cent.	Five years, 1892-96. Average deaths.	Five years, 1892-96. Per cent.	Five years, 1898-1902. (New law.) Average deaths.	Five years, 1898-1902. (New law.) Per cent.
	CANCER, ALL FORMS—TOTAL DEATHS	Total	403.40	100.0	187.4	100.0	280.2	100.0	367.8	100.0	498.4	100.0	683.2	100.0	1,416.4	100.0
		Males	171.48	100.0	81.6	100.0	117.6	100.0	165.2	100.0	205.8	100.0	287.2	100.0	594.6	100.0
		Females	231.92	100.0	105.8	100.0	162.6	100.0	202.6	100.0	292.6	100.0	396.0	100.0	821.8	100.0
39	Cancer of mouth	Total	6.20	1.5	6.4	3.4	4.4	1.6	5.6	1.5	5.2	1.0	9.4	1.4	38.6	2.7
		Males	4.24	1.5	4.6	5.6	3.0	2.6	3.6	2.2	2.8	1.4	7.2	2.5	29.0	2.0
		Females	1.96	0.8	1.8	1.7	1.4	0.9	2.0	1.0	2.4	0.8	2.2	0.6	9.6	0.7
	Cancer of stomach and liver	Total	112.84	28.0	51.0	27.2	73.8	26.2	94.6	25.7	147.8	29.7	197.0	28.8	556.4	39.2
		Males	64.64	37.7	31.6	38.7	45.2	38.4	59.6	36.1	79.2	38.5	107.6	37.5	303.4	21.4
		Females	48.20	20.8	19.4	18.3	28.6	17.6	35.0	17.3	68.6	23.4	89.4	22.6	253.0	17.9
4	Cancer of intestines	Total	10.12	2.5	3.6	1.9	7.8	2.8	9.8	2.7	9.4	1.9	20.0	2.9	120.6	8.5
		Males	4.24	2.5	1.4	1.7	2.8	2.4	3.8	2.3	4.6	2.2	8.6	3.0	57.0	4.0
		Females	5.88	2.5	2.2	2.1	5.0	3.1	6.0	3.0	4.8	1.6	11.4	2.9	63.6	4.5
42	Cancer of genital organs	Total	16.72	4.1	6.6	3.5	13.8	4.9	14.4	3.9	15.8	3.2	33.0	4.8	193.4	13.7
		Males	0.16	0.1	.....	.....	.....	.....	.....	.....	0.6	0.3	0.2	0.1	1.0	0.1
		Females	16.56	7.1	6.6	6.2	13.8	8.5	14.4	7.1	15.2	5.2	32.8	8.3	192.4	13.6
43	Cancer of breast	Total	21.00	5.2	17.6	9.4	20.4	7.3	16.6	4.5	24.6	4.9	25.8	3.8	118.0	8.3
		Males	0.76	0.4	0.8	1.0	0.4	0.3	1.4	0.8	1.0	0.5	0.2	0.1	2.0	0.1
		Females	20.24	8.7	16.8	15.9	20.0	12.3	15.2	7.5	23.6	8.1	25.6	6.5	116.0	8.2
44	Cancer of skin	Total	10.88	2.7	7.0	3.7	8.0	2.9	10.8	2.9	14.4	2.9	14.2	2.1	72.4	5.1
		Males	8.08	4.7	5.0	6.1	6.2	5.3	7.8	4.7	10.8	5.2	10.6	3.7	52.4	3.7
		Females	2.80	1.2	2.0	0.2	1.8	1.1	3.0	1.5	3.6	1.2	3.6	0.9	20.0	1.4
45	*Cancer of other organs or unspecified organs*	Total	*225.64*	*55.9*	*95.2*	*50.8*	*152.0*	*54.2*	*216.0*	*58.7*	*281.2*	*56.4*	*383.8*	*56.2*	317.0	22.4
		Males	*89.36*	*52.1*	*38.2*	*46.8*	*60.0*	*51.0*	*89.0*	*53.9*	*106.8*	*51.9*	*152.8*	*53.2*	149.8	10.6
		Females	*136.28*	*58.8*	*57.0*	*53.9*	*92.0*	*56.6*	*127.0*	*62.7*	*174.4*	*59.6*	*231.0*	*58.3*	167.2	11.8
	(a) External	Total	13.08	3.2	9.0	4.8	10.2	3.6	14.2	3.9	16.4	3.3	15.6	2.3	.....	.....
		Males	8.20	4.8	4.6	5.6	6.4	5.4	8.4	5.1	9.8	4.8	11.8	4.1	.....	.....
		Females	4.88	2.1	4.4	4.2	3.8	2.3	5.8	2.9	6.6	2.3	3.8	1.0	.....	.....
	(b) Internal	Total	3.84	1.0	1.2	0.6	2.0	0.7	3.2	0.9	6.2	1.2	6.6	1.0	.....	.....
		Males	2.28	1.3	0.4	0.5	1.2	1.0	2.2	1.3	3.4	1.7	4.2	1.5	.....	.....
		Females	1.56	0.7	0.8	0.8	0.8	0.5	1.0	0.5	2.8	1.0	2.4	0.6	.....	.....
	(c) Unspecified	Total	208.72	51.7	85.0	45.4	139.8	49.9	198.6	54.0	258.6	51.9	361.6	52.9	.....	.....
		Males	78.88	46.0	33.2	40.7	52.4	44.6	78.4	47.5	93.6	45.5	136.8	47.6	.....	.....
		Females	129.84	56.0	51.8	49.0	87.4	53.8	120.2	59.3	165.0	56.4	224.8	56.8	.....	.....

Table 30.—Deaths and death rates per 100,000 population of same age and sex from by physicians' certificates under new law (1898-1902), with five-year

Years.	Sex.	All ages.					Under 15 years.					15 to 29 years.				
		Population.	Cancer.		Tumor.		Population.	Cancer.		Tumor.		Population.	Cancer.		Tumor.	
			Deaths.	Death rates	Deaths.	Death rates.		Deaths.	Death rates.	Deaths.	Death rates.		Deaths.	Death rates.	Deaths.	Death rates.
1870	Total	1,184,059	120	10.1	23	1.9	450,791	....	....	....	....	336,226	....	....	....	....
	Males	617,745	47	7.6	6	1.0	228,986	....	....	....	....	173,227	....	....	....	....
	Females	566,314	73	12.9	17	3.0	221,805	....	....	....	....	162,999	....	....	....	....
1971	Total	1,221,552	105	8.6	32	2.6	463,573	....	....	....	....	349,880	....	....	....	....
	Males	637,605	48	7.5	11	1.7	235,514	....	....	....	....	181,004	....	....	....	....
	Females	583,947	57	9.8	21	3.6	228,059	....	....	....	....	168,876	....	....	....	....
1872	Total	1,259,045	133	10.5	31	2.5	476,355	15	3.1	4	0.8	363,536	8	2.2	3	0.8
	Males	657,465	58	8.8	7	1.1	242,042	9	3.7	1	0.4	188,782	4	2.1	1	0.5
	Females	601,581	75	12.5	24	4.0	234,313	6	2.6	3	1.3	174,754	4	2.3	2	1.1
1873	Total	1,296,538	172	13.3	48	3.7	489,137	8	1.6	14	2.9	377,190	7	1.9	8	2.1
	Males	677,324	75	11.1	18	2.7	248,570	4	1.6	8	3.2	196,559	....	....	1	0.5
	Females	619,214	97	15.7	30	4.8	240,567	4	1.7	6	2.5	180,631	7	3.9	7	3.9
1874	Total	1,334,031	188	14.1	34	2.5	501,919	7	1.4	3	0.6	390,846	4	1.0	7	1.8
	Males	697,194	84	12.0	14	2.0	255,098	6	2.4	3	1.2	204,337	1	0.5	1	0.5
	Females	636,837	104	16.3	20	3.1	246,821	1	0.4	..	....	186,509	3	1.6	6	3.2
1875	Total	1,384,515	203	14.7	55	4.0	514,701	15	2.9	7	1.4	404,500	7	1.7	7	1.7
	Males	724,713	73	10.1	13	1.8	261,626	3	1.1	1	0.4	212,114	3	1.4	1	0.5
	Females	659,803	130	19.7	42	6.4	253,075	12	4.7	6	2.4	192,386	4	2.1	6	3.1
1876	Total	1,435,000	241	16.8	41	2.9	527,481	18	3.4	9	1.7	418,154	10	2.4	5	1.2
	Males	752,241	118	15.7	12	1.6	268,153	13	4.8	5	1.9	219,891	4	1.8	1	0.5
	Females	682,759	123	18.0	29	4.2	259,328	5	1.9	4	1.5	198,263	6	3.0	4	2.0
1877	Total	1,485,484	266	17.9	45	3.0	540,263	14	2.6	4	0.7	431,810	11	2.5	2	0.5
	Males	779,770	125	16.0	16	2.1	274,681	8	2.9	1	0.4	227,669	4	1.8	1	0.4
	Females	705,715	141	20.0	29	4.1	265,582	6	2.3	3	1.1	204,141	7	3.4	1	0.5
1878	Total	1,535,968	269	17.5	56	3.6	553,045	7	1.3	12	2.2	445,464	9	2.0	8	1.8
	Males	807,298	116	14.4	14	1.7	281,209	4	1.4	5	1.8	235,446	4	1.7	1	0.4
	Females	728,670	153	21.0	42	5.8	271,836	3	1.1	7	2.6	210,018	5	2.4	7	3.3
1879	Total	1,586,453	272	17.1	65	4.1	565,827	13	2.3	7	1.2	459,120	8	1.7	9	2.0
	Males	834,827	124	14.9	23	2.8	287,737	4	1.4	3	1.0	243,224	6	2.5	3	1.2
	Females	751,626	148	19.7	42	5.6	278,090	9	3.2	4	1.4	215,896	2	0.9	6	2.8
1880	Total	1,636,937	284	17.3	76	4.6	578,609	12	2.1	5	0.9	472,774	11	2.3	10	2.1
	Males	862,355	111	12.9	29	3.4	294,265	4	1.4	1	0.3	251,001	4	1.6	3	1.2
	Females	774,582	173	22.3	47	6.1	284,344	8	2.8	4	1.4	221,773	7	3.2	7	3.2
1881	Total	1,691,117	310	18.3	86	5.1	593,912	12	2.0	2	0.3	488,690	11	2.3	10	2.0
	Males	890,399	112	12.6	24	2.7	301,908	4	1.3	....	....	258,813	4	1.5	3	1.2
	Females	800,718	198	24.7	62	7.7	292,004	8	2.7	2	0.7	229,877	7	3.0	7	3.0
1882	Total	1,745,298	301	17.2	68	3.9	609,214	7	1.1	4	0.7	504,606	9	1.8	12	2.4
	Males	918,444	139	15.1	16	1.7	309,551	3	1.0	1	0.3	266,626	5	1.9	2	0.8
	Females	826,854	162	19.6	52	6.3	299,663	4	1.3	3	1.0	237,980	4	1.7	10	4.2
1883	Total	1,799,478	383	21.3	58	3.2	624,516	15	2.4	8	1.3	520,522	20	3.8	7	1.3
	Males	946,488	160	16.9	14	1.5	317,193	6	1.9	6	1.9	274,438	4	1.5	1	0.4
	Females	852,990	223	26.1	44	5.2	307,323	9	2.9	2	0.6	246,084	16	6.5	6	2.4
1884	Total	1,853,658	361	19.5	85	4.6	639,313	14	2.2	8	1.3	536,437	10	1.9	12	2.2
	Males	974,532	173	17.8	26	2.7	324,836	12	3.7	4	1.2	282,250	6	2.1	5	1.8
	Females	879,126	188	21.4	59	6.7	314,982	2	0.6	4	1.3	254,187	4	1.6	7	2.8
1885	Total	1,893,697	403	21.3	104	5.5	649,029	17	2.6	9	1.4	544,809	12	2.2	15	2.8
	Males	994,073	183	18.4	30	3.0	329,373	9	2.7	4	1.2	285,471	2	0.7	4	1.4
	Females	899,623	220	24.5	74	8.2	319,656	8	2.5	5	1.6	259,338	10	3.9	11	4.2
1886	Total	1,933,735	391	20.2	91	4.7	658,239	13	2.0	3	0.5	553,181	15	2.7	10	1.8
	Males	1,013,615	171	16.9	23	2.3	333,909	7	2.1	1	0.3	288,692	4	1.4	2	0.7
	Females	920,120	220	23.9	68	7.4	324,330	6	1.8	2	0.6	264,489	11	4.2	8	3.0

*For footnote see end of table.

cancer and tumor, in Michigan, as enumerated under old law (1870-97) and as registered averages and average for twenty-five year period under old law.*

30 to 44 years.					45 to 64 years.					65 years and over.					Unknown ages.		
	Cancer.		Tumor.			Cancer.		Tumor.			Cancer.		Tumor.				
Population.	Deaths.	Death rates.	Deaths.	Death rates.	Population.	Deaths.	Death rates.	Deaths.	Death rates.	Population.	Deaths.	Death rates.	Deaths.	Death rates.	Population.	Cancer	Tumor.
219,126	....	.....	....	.....	**145,391**	....	.....	....	.....	**32,518**	....	.....	....	.....	12	....	....
115,858	....	.....	....	.....	**81,633**	....	.....	....	.....	**18,034**	....	.....	....	.....	7	....	....
103,268	....	.....	....	.....	**63,758**	....	.....	....	.....	**14,479**	....	.....	....	.....	5	....	....
228,365	....	.....	....	.....	152,530	....	.....	....	.....	34,988	....	.....	....	.....	11	....	....
120,962	....	.....	....	.....	85,362	....	.....	....	.....	19,358	....	.....	....	.....	6	....	....
107,403	....	.....	....	.....	67,168	....	.....	....	.....	15,630	....	.....	....	.....	5	....	....
237,604	17	7.2	*7*	*2.9*	159,669	60	37.6	*15*	*9.4*	37,461	29	77.4	*2*	*5.3*	10	4	....
126,066	4	3.2	....	.....	89,091	22	24.7	*4*	*4.5*	20,681	15	72.5	*1*	*4.8*	6	4	....
111,538	13	11.7	7	*6.3*	70,578	38	53.8	*11*	*15.6*	16,780	14	83.4	*1*	*6.0*	4	....	....
246,843	27	10.9	*5*	*2.0*	166,808	73	43.8	*12*	*7.2*	39,936	52	130.2	*8*	*20.0*	9	5	*1*
131,169	10	7.6	*1*	*0.8*	92,820	35	37.7	*5*	*5.4*	22,005	25	113.6	*3*	*13.6*	5	1	....
115,674	17	14.7	*4*	*3.5*	73,988	38	51.4	*7*	*9.5*	17,931	27	150.6	*5*	*27.9*	4	4	*1*
256,082	20	7.8	*8*	*3.1*	173,947	96	55.2	*9*	*5.2*	42,410	60	141.5	*7*	*16.5*	7	1	....
136,273	8	5.9	*3*	*2.2*	96,549	39	40.4	*2*	*2.1*	23,328	30	128.6	*5*	*21.4*	4	....	....
119,809	12	10.0	*5*	*4.2*	77,398	57	73.6	*7*	*9.0*	19,082	30	157.2	*2*	*10.5*	3	1	....
265,321	37	13.9	*13*	*4.9*	181,087	86	47.5	*19*	*10.5*	44,885	56	124,8	*9*	*20.1*	7	2	....
141,377	10	7.1	....	.....	100,278	32	31.9	*7*	*7.0*	24,652	24	97.4	*4*	*16.2*	4	1	....
123,944	27	21.8	*13*	*10.5*	80,809	54	66.8	*12*	*14.8*	20,233	32	158.2	*5*	*24.7*	3	1	....
274,560	38	13.8	*8*	*2.9*	188,226	111	59.0	*13*	*6.9*	47,359	61	128.8	*4*	*8.4*	5	3	*2*
146,481	15	10.2	*2*	*1.4*	104,007	45	43.3	*4*	*3.8*	25,976	39	150.1	....	.....	3	2	....
128,079	23	18 0	*6*	*4.7*	84,219	66	78.4	*9*	*10.7*	21,383	22	102.9	*4*	*18.7*	2	1	*2*
283,799	32	11.3	*11*	*3.9*	195,365	118	60.4	*18*	*9.2*	49,833	86	172.6	*10*	*20.1*	4	5	....
151,585	10	6.6	....	.....	107,736	44	40.8	*7*	*6.5*	27,299	56	205.1	*7*	*25.6*	2	3	....
132,214	22	16.6	*11*	*8.3*	87,629	74	84.4	*11*	*12.6*	22,534	30	133.1	*3*	*13.3*	2	2	....
293,038	41	14.0	*13*	*4.4*	202,504	128	63.2	*14*	*6.9*	52,308	76	145.3	*9*	*17.2*	2	8	....
156,688	8	5.1	*2*	*1.3*	111,465	59	52.9	*3*	*2.7*	28,623	37	129.3	*3*	*10.5*	1	4	....
136,350	33	24.2	*11*	*8.1*	91,039	69	75.8	*11*	*12.1*	23,685	39	164.7	*6*	*25.3*	1	4	....
302,277	42	13.9	*16*	*5.3*	209,643	128	61.1	*28*	*13.4*	54,781	78	142.4	*3*	*5.5*	2	3	*2*
161,792	14	8.7	*3*	*1.9*	115,194	53	46.0	*12*	*10.4*	29,946	45	150.3	*2*	*6.7*	1	2	....
140,485	28	19.9	*13*	*9.3*	94,449	75	79.4	*16*	*16.9*	24,835	33	132.9	*1*	*4.0*	1	1	*2*
311,518	46	14.8	*13*	*4.2*	**216,782**	135	62.3	*32*	*14.8*	**57,256**	77	134.5	*15*	*26.2*	.....	3	*1*
166,896	12	7.2	*2*	*1.2*	**118,923**	48	40.4	*16*	*13.5*	**31,270**	43	137.5	*7*	*22.4*	.....	....	....
144,620	34	23.5	*11*	*7.6*	**97,859**	87	88.9	*16*	*16.4*	**25,986**	34	130.8	*8*	*30.8*	.....	3	*1*
323,110	50	15.5	*20*	*6.2*	224,948	152	67.6	*36*	*16.0*	60,042	84	139.9	*17*	*28.3*	365	1	*1*
173,587	15	8.6	*3*	*1.7*	123,021	48	39.0	*10*	*8.1*	32,766	41	125,1	*8*	*24.4*	277	....	....
149,523	35	23.4	*17*	*11.4*	101,927	104	102.0	*26*	*25.5*	27,276	43	157.6	*9*	*33.0*	88	1	*1*
334,705	46	13.7	*16*	*4.8*	233,116	122	52.3	*21*	*9.0*	62,829	109	173.5	*13*	*20.7*	728	8	*2*
180,279	13	7.2	*3*	*1.7*	127,120	49	38.5	*4*	*3.1*	34,263	66	192.6	*5*	*14.6*	553	3	*1*
154,426	33	21.4	*13*	*8.4*	105,996	73	68.9	*17*	*16.0*	28,566	43	150,5	*8*	*28.0*	175	5	*1*
346,299	55	15.9	*7*	*2.0*	241,282	182	75.4	*25*	*10.4*	65,614	102	155.5	*11*	*16.8*	1,093	9	....
186,970	10	5.3	....	.....	131,218	76	57.9	*6*	*4.6*	35,759	59	165.0	*1*	*2.8*	830	5	....
159,329	45	28.2	7	*4.4*	110,064	106	96.3	*19*	*17.3*	29,855	43	144.0	*10*	*33.5*	263	4	....
357 893	65	18.2	*21*	*5.9*	**249,448**	146	58.5	*26*	*10.4*	**68,400**	123	179.8	*16*	*23.4*	**1,456**	3	*2*
193,661	26	13.4	*3*	*1.5*	**135,316**	62	45.8	*7*	*5.2*	**37,255**	66	177.2	*7*	*18.8*	**1,106**	1	....
164,232	39	23.7	*18*	*11.0*	**114,132**	84	73.6	*19*	*16.6*	**31,145**	57	183.0	*9*	*28.9*	**350**	2	*2*
367,091	53	14.4	*18*	*4.9*	258,269	183	70.9	*43*	*16.6*	72,376	130	179.6	*18*	*24.9*	1,952	8	*1*
198,574	20	10.1	*5*	*2.5*	139,747	75	53.7	*10*	*7.2*	39,384	75	190.4	*7*	*17.8*	1,436	2	....
168,517	33	19.6	*13*	*7.7*	118,522	108	91.1	*33*	*27.8*	32,992	55	166.7	*11*	*33.3*	516	6	*1*
[illegible]	[illegible]	16.7	*22*	*5.8*	267,090	175	65.5	*36*	*13.5*	76,353	119	155.9	*20*	*26.2*	2,440	6	....
[illegible]	[illegible]	[illegible]	*5*	*2.5*	144,177	72	49.9	*8*	*5.5*	41,514	70	168.6	*7*	*16.9*	1,765	3	....
[illegible]	[illegible]	[illegible]	*17*	*9.8*	122,913	103	83.8	*28*	*22.8*	34,839	49	140.6	*13*	*37.3*	681	3	....

Table 30.—Continued.—Deaths and

Years.	Sex.	All ages.					Under 15 years.					15 to 29 years.				
		Population.	Cancer.		Tumor.		Population.	Cancer.		Tumor.		Population.	Cancer.		Tumor.	
			Deaths.	Death rates.	Deaths.	Death rates.		Deaths.	Death rates.	Deaths.	Death rates.		Deaths.	Death rates.	Deaths.	Death rates.
1887	Total	1,973,774	453	23.0	92	4.7	667,450	15	2.2	8	1.2	561,552	15	2.7	6	1.1
	Males	1,033,156	185	17.9	21	2.0	338,446	5	1.5	5	1.5	291,912	5	1.7	1	0.3
	Females	940,618	268	28.5	71	7.5	329,004	10	3.0	3	0.9	269,640	10	3.7	5	1.9
1888	Tatal	2,013,812	480	23.8	108	5.4	676,660	14	2.1	9	1.3	569,924	19	3.3	16	2.8
	Males	1,052,697	193	18.3	35	3.3	342,982	8	2.3	4	1.2	295,133	4	1.4	3	1.0
	Females	961,115	287	29.9	73	7.6	333,678	6	1.8	5	1.5	274,791	15	5.5	13	4.7
1889	Total	2,053,851	492	24.0	102	5.0	685,871	14	2.0	8	1.2	578,296	28	4.8	6	1.0
	Males	1,072,239	202	18.8	28	2.6	347,519	6	1.7	5	1.4	298,354	14	4.7	1	0.3
	Females	981,612	290	29.5	74	7.5	338,352	8	2.4	3	0.9	279,942	14	5.0	5	1.8
1890	Total	2,093,889	533	25.5	123	5.9	695,081	14	2.0	17	2.4	586,668	14	2.4	11	1.9
	Males	1,091,730	235	21.5	33	3.0	352,055	7	2.0	5	1.4	301,575	5	1.7	3	1.0
	Females	1,002,109	298	29.7	90	9.0	343,026	7	2.0	12	3.5	285,093	9	3.2	8	2.8
1891	Total	2,130,827	534	25.1	157	7.4	706,969	14	2.0	14	2.0	594,157	11	1.9	12	2.0
	Males	1,108,970	214	19.3	38	3.4	358,283	7	2.0	7	2.0	304,156	5	1.6	2	0.7
	Females	1,021,857	320	31.3	119	11.6	348,686	7	2.0	7	2.0	290,001	6	2.1	10	3.4
1892	Total	2,167,765	558	25.7	139	6.4	718,859	7	1.0	13	1.8	601,646	13	2.2	18	3.0
	Males	1,126,160	246	21.8	36	3.2	364,512	5	1.4	4	1.1	306,737	5	1.6	6	2.0
	Females	1,041,605	312	30.0	103	9.9	354,347	2	0.6	9	2.5	294,909	8	2.7	12	4.1
1893	Total	2,204,703	644	29.2	156	7.1	730,747	7	1.0	11	1.5	609,134	22	3.6	13	2.1
	Males	1,143,350	284	24.8	43	3.8	370,740	6	1.6	4	1.1	309,318	8	2.6	5	1.6
	Females	1,061,353	360	33.9	113	10.6	360,007	1	0.3	7	1.9	299,816	14	4.7	8	2.7
1894	Total	2,241,641	677	30.2	149	6.6	742,635	6	0.8	12	1.6	661,623	18	2.9	20	3.2
	Males	1,160,540	269	23.2	41	3.5	376,968	1	0.3	7	1.9	311,899	8	2.6	7	2.2
	Females	1,081,101	408	37.7	108	10.0	365,667	5	1.4	5	1.4	304,724	10	3.3	13	4.3
1895	Total	2,271,531	757	33.3	172	7.6	747,585	10	1.3	13	1.7	622,809	21	3.4	20	3.2
	Males	1,175,268	312	26.5	48	4.1	379,263	3	0.8	9	2.4	314,831	10	3.2	4	1.3
	Females	1,096,264	445	40.6	124	11.3	368,322	7	1.9	4	1.1	307,978	11	3.6	16	5.2
1896	Total	2,301,421	780	33.9	161	7.0	752,535	6	0.8	22	2.9	628,995	27	4.3	19	3.0
	Males	1,189,995	325	27.3	43	3.6	381,557	4	1.0	14	3.7	317,763	8	2.5	2	0.6
	Females	1,111,426	455	40.9	118	10.6	370,978	2	0.5	8	2.2	311,232	19	6.1	17	5.5
1897	Total	2,331,311	760	32.6	135	5.8	757,485	10	1.3	16	2.1	635,180	23	3.6	14	2.2
	Males	1,204,723	333	27.6	49	4.1	383,852	4	1.0	11	2.9	320,695	9	2.8	6	1.9
	Females	1,126,589	427	37.9	86	7.6	373,633	6	1.6	5	1.3	314,485	14	4.5	8	2.5
1898	Total	2,361,201	1,321	55.9	79	3.3	762,434	23	3.0	6	0.8	641,367	35	5.5	9	1.4
	Males	1,219,450	549	45.0	22	1.8	386,146	12	3.1	4	1.0	323,628	12	3.7	4	1.2
	Females	1,141,752	772	67.6	57	5.0	376,288	11	2.9	2	0.5	317,739	23	7.2	5	1.6
1899	Total	2,391,091	1,334	55.8	45	1.9	767,385	11	1.4	3	0.4	647,553	38	5.9	2	0.3
	Males	1,234,178	560	45.4	8	0.6	388,441	7	1.8	2	0.5	326,560	12	3.7	....	....
	Females	1,156,914	774	66.9	37	3.2	378,944	4	1.1	1	0.3	320,993	26	8.1	2	0.6
1900	Total	2,420,982	1,460	60.3	46	1.9	772,334	21	2.7	1	0.1	653,739	36	5.5	4	0.6
	Males	1,248,905	599	48.0	15	1.2	390,735	15	3.8	1	0.3	329,432	11	3.3	2	0.6
	Females	1,172,077	861	73.7	31	2.6	381,599	6	1.6	...	....	324,247	25	7.7	2	0.6
1901	Total	2,450,872	1,484	60.5	40	1.6	777,284	19	2.4	....	....	659,925	35	5.3	1	0.2
	Males	1,263,633	637	50.4	14	1.1	393,030	8	2.0	....	....	332,424	20	6.0	....	....
	Females	1,187,239	847	71.3	26	2.2	384,254	11	2.9	....	....	327,501	15	4.6	1	0.3
1902	Total	2,480,762	1,483	59.8	39	1.6	782,234	10	1.3	1	0.1	666,111	29	4.4	1	0.2
	Males	1,278,360	628	49.1	13	1.0	395,324	8	2.0	1	0.3	335,356	13	3.9	1	0.3
	Females	1,202,402	855	71.1	26	2.2	386,910	2	0.5	....	....	330,755	16	4.8	....	....

death rates from cancer and tumor.

30 to 44 years.					45 to 64 years.					65 years and over.					Unknown ages.		
	Cancer.		Tumor.			Cancer.		Tumor.			Cancer.		Tumor.				
Population.	Deaths.	Death rates.	Deaths.	Death rates.	Population.	Deaths.	Death rates.	Deaths.	Death rates.	Population.	Deaths.	Death rates.	Deaths.	Death rates.	Population.	Cancer.	Tumor.
385,487	59	15.3	26	6.7	275,912	207	75.0	33	12.0	80,328	148	184.2	19	23.7	2,942	9	....
208,399	15	7.2	4	1.9	148,608	78	52.5	6	4.0	43,643	78	178.7	5	11.5	2,095	4	....
177,088	44	24.8	22	12.4	127,304	129	101.3	27	21.2	36,685	70	190.8	14	38.2	847	5	....
394,684	78	19.8	22	5.6	284,734	209	73.4	34	11.9	84,304	156	185.0	26	30.8	3,437	4	1
213,311	19	8.9	5	2.3	153,039	81	52.9	12	7.8	45,772	81	177.0	11	24.0	2,424	....	....
181,373	59	32.5	17	9.4	131,695	128	97.2	22	16.7	38,532	75	194.6	15	38.9	1,013	4	1
403,882	82	20.3	23	5.7	293,555	202	68.8	49	16.7	88,281	163	184.6	16	18.1	3,932	3	....
218,224	16	7.3	5	2.3	157,469	75	47.6	12	7.6	47,902	90	187.9	5	10.4	2,754	1	....
185,658	66	35.5	18	9.7	136,086	127	93.3	37	27.2	40,379	73	180.8	11	27.2	1,178	2	....
418,079	93	22.5	28	6.8	302,377	233	77.1	45	14.9	93,267	177	191.9	22	23.8	4,427	2	....
223,136	35	15.7	5	2.2	161,900	91	56.2	12	7.4	50,031	96	191.9	8	16.0	3,083	1	....
189,943	58	30.5	23	12.1	140,477	142	101.1	33	23.5	42,236	81	191.8	14	33.2	1,344	1	....
421,843	84	19.9	40	9.5	309,783	255	82.3	59	19.0	94,391	159	168.4	28	29.7	3,685	11	1
227,150	20	8.8	5	2.2	165,692	97	58.5	14	8.4	51,130	81	158.4	9	17.6	2,550	4	1
194,684	64	32.9	35	18.0	144,091	158	109.7	45	31.2	43,261	78	180.3	19	43.9	1,135	7	5
430,608	70	16.3	39	9.1	317,187	275	86.7	43	13.6	96,526	189	195.8	23	23.8	2,943	4	5
231,183	24	10.4	9	3.9	169,483	110	64.3	11	6.5	52,230	101	193.4	6	11.5	2,017	1	....
199,425	46	23.1	30	15.0	147,704	165	111.7	32	21.7	44,296	88	198.7	17	38.4	926	3	5
439,372	100	22.8	34	7.7	324,593	275	84.7	64	19.7	98,659	233	236.2	33	33.4	2,199	7	1
235,206	34	14.5	10	4.3	173,275	104	60.0	14	8.1	53,329	129	241.9	10	18.8	1,483	3	....
204,166	66	32.3	24	11.8	151,318	171	113.0	50	33.0	45,330	104	229.4	23	50.7	716	4	1
448,136	115	25.7	39	8.7	331,997	323	97.3	48	14.5	100,793	208	206.4	30	29.8	1,457	7	....
239,229	28	11.7	7	2.9	177,066	125	70.6	9	5.1	54,423	106	194.8	11	20.2	950	1	....
208,907	87	41.6	32	15.3	154,931	198	127.8	39	25.2	46,365	102	220.0	19	41.0	507	6	....
455,314	100	22.0	48	10.5	339,835	379	111.5	59	17.4	104,187	240	230.4	32	30.7	1,802	7	....
242,524	22	9.1	8	3.3	181,335	144	79.4	17	9.4	56,113	131	233.5	10	17.8	1,202	2	....
212,790	78	36.7	40	18.8	158,500	235	148.3	42	26.5	48,074	109	226.7	22	45.8	600	5	....
462,491	108	23.4	34	7.4	347,673	375	107.9	58	16.7	107,582	254	236.1	28	26.0	2,146	10	....
245,818	29	11.8	4	1.6	185,604	144	77.6	11	5.9	57,799	133	230.1	12	20.8	1,454	7	....
216,673	79	36.5	30	13.8	162,069	231	142.5	47	29.0	49,783	121	243.1	16	32.1	692	3	....
469,668	94	20.0	24	5.1	355,509	354	99.6	43	12.1	110,976	269	242.4	36	32.4	2,491	10	1
249,113	31	12.4	9	3.6	189,872	150	79.0	11	5.8	59,484	135	227.0	12	20.2	1,706	4	....
220,555	63	28.6	15	6.8	165,637	204	123.2	32	19.3	51,492	134	260.2	24	46.6	785	6	1
476,845	186	39.0	17	3.6	363,347	593	163.2	27	7.4	114,371	482	421.4	20	17.5	2,837	2	....
252,407	59	23.4	3	1.2	194,141	224	115.4	6	3.1	61,169	241	394.0	5	8.2	1,959	1	....
224,438	127	56.6	14	6.2	169,206	369	218.1	21	12.4	53,202	241	453.0	15	28.2	878	1	....
484,023	183	37.8	8	1.7	371,185	591	159.2	14	3.8	117,766	508	431.4	18	15.3	3,181	3	....
255,702	44	17.2	1	0.4	198,410	254	128.0	2	1.0	62,855	241	383.4	3	4.8	2,211	2	....
228,321	139	60.9	7	3.1	172,775	337	195.1	12	6.9	54,911	267	486.2	15	27.3	970	1	....
491,200	183	37.3	9	1.8	379,023	660	174.1	13	3.4	121,160	558	460.5	19	15.7	3,528	2	....
258,996	58	22.4	2	0.8	202,879	234	115.5	4	2.0	64,540	280	433.8	6	9.3	2,463	1	....
232,204	125	53.8	7	3.0	176,344	426	241.6	9	5.1	56,620	278	491.0	13	23.0	1,063	1	....
498,377	215	43.1	5	1.0	386,861	642	166.0	22	5.7	124,555	570	457.6	12	9.6	3,871	3	....
262,291	64	24.4	....	.....	206,948	258	124.7	10	4.8	66,225	286	431.9	4	6.0	2,715	1	....
236,086	151	64.0	5	2.1	179,913	184	213.4	12	6.7	58,329	284	486.9	8	13.7	1,156	2	....
505,555	200	39.6	5	1.0	394,698	682	172.8	18	4.6	127,949	557	435.3	14	10.9	4,216	5	....
265,585	53	20.0	2	0.8	211,217	267	126.4	5	2.4	67,911	283	416.7	5	7.4	2,967	4	....
239,970	147	61.3	3	1.3	183,482	415	226.2	13	7.1	60,038	274	456.4	9	15.0	1,248	1	....

Table 30.—Concluded.—Deaths

Years.	Sex.	All ages.					Under 15 years.					15 to 29 years.			
		Population.	Cancer.		Tumor.		Population.	Cancer.		Tumor.		Population.	Cancer.		Tum
			Deaths.	Death rates.	Deaths.	Death rates.		Deaths.	Death rates.	Deaths.	Death rates.		Deaths.	Death rates.	Deaths.
1872-76...	Total....	1,341,825.8	187.4	14.0	*41.8*	*3.1*	501,918.6	12.6	2.5	*7.4*	*1.5*	390,845.2	7.2	1.8	*6.0*
	Males....	701,785.4	81.6	11.6	*12.8*	*1.8*	255,097.8	7.0	2.7	*3.6*	*1.4*	204,336.6	2.4	1.2	*1.0*
	Females.	640,040.8	105.8	16.5	*29.0*	*4.5*	246,820.8	5.6	2.3	*3.8*	*1.5*	186,508.6	4.8	2.6	*5.0*
1877-81...	Total.....	1,587,191.8	280.2	17.7	*65.6*	*4.1*	566,331.2	11.6	2.0	*6.0*	*1.1*	459,571.6	10.0	2.2	*7.8*
	Males....	834,929.8	117.6	14.1	*21.2*	*2.5*	287,960.0	4.8	1.7	*2.0*	*0.7*	243,230.6	4.4	1.8	*2.2*
	Females.	752,262.2	162.6	21.6	*44.4*	*5.9*	278,371.2	6.8	2.4	*4.0*	*1.4*	216,341.0	5.6	2.6	*5.6*
1882-86...	Total....	1,845,173.2	367.8	19.9	*81.2*	*4.4*	636,163.2	13.2	2.1	*6.4*	*1.0*	531,911.0	13.2	2.5	*11.2*
	Males....	969,430.4	165.2	17.0	*21.8*	*2.2*	322,972.4	7.4	2.3	*3.2*	*1.0*	279,495.4	4.2	1.5	*2.8*
	Females.	875,742.6	202.6	23.1	*59.4*	*6.8*	313,190.8	5.8	1.9	*3.2*	*1.0*	252,415.6	9.0	3.6	*8.4*
1887-91...	Total....	2,053,230.6	498.4	24.3	*116.4*	*5.7*	686,406.2	14.2	2.1	*11.2*	*1.6*	578,119.4	17.4	3.0	*10.2*
	Males....	1,071,768.4	205.8	19.2	*31.0*	*2.9*	347,857.0	6.6	1.9	*5.2*	*1.5*	298,226.0	6.6	2.2	*2.0*
	Females.	981,462.2	292.6	29.8	*85.4*	*8.7*	338,549.2	7.6	2.2	*6.0*	*1.8*	279,893.4	10.8	3.9	*8.2*
1892-96...	Total....	2,237,412.2	683.2	30.5	*155.4*	*6.9*	738,472.2	7.2	1.0	*14.2*	*1.9*	615,841.4	20.2	3.3	*18.0*
	Males....	1,159,062.6	287.2	24.8	*42.2*	*3.6*	374,608.0	3.8	1.0	*7.6*	*2.0*	312,109.6	7.8	2.5	*4.8*
	Females.	1,078,349.8	396.0	36.7	*113.2*	*10.5*	363,864.2	3.4	0.9	*6.6*	*1.8*	303,731.8	12.4	4.1	*13.2*
1872-96...	Total....	1,812,966.72	403.40	22.3	*92.08*	*5.1*	625,858.28	11.76	1.9	*9.04*	*1.4*	515,257.72	13.6	2.6	*10.64*
	Males....	947,395.32	171.48	18.1	*25.80*	*2.7*	317,697.64	5.92	1.9	*4.32*	*1.4*	267,479.64	5.08	1.9	*2.56*
	Females.	865,571.52	231.92	26.8	*66.28*	*7.7*	308,159.24	5.84	1.9	*4.72*	*1.5*	247,778.08	8.52	3.4	*8.08*
1898-1902	Total....	2,420,981.6	1,416.4	58.5	*49.8*	*2.1*	772,334.2	16.8	2.2	*2.2*	*0.3*	653,730.0	34.6	5.3	*3.4*
	Males....	1,248,905.2	594.6	47.6	*14.4*	*1.2*	390,735.2	10.0	2.6	*1.6*	*0.4*	329,492.0	13.6	4.1	*1.4*
	Females.	1,172,076.8	821,8	70.1	*35.4*	*3.0*	381,599.0	6.8	1.8	*0.6*	*0.2*	324,247.0	21.0	6.5	*2.0*

rates from cancer and tumor.

30 to 34 years.					45 to 64 years.					65 years and over.					Unknown ages.		
	Cancer.		Tumor.			Cancer.		Tumor.			Cancer.		Tumor.				
la-n.	Deaths.	Death rates.	Deaths.	Death rates.	Population.	Deaths.	Death rates.	Deaths.	Death rates.	Population.	Deaths.	Death rates.	Deaths.	Death rates.	Population.	Cancer	Tumor.
082.0	27.8	10.9	8.2	3.2	173,947.4	85.2	49.0	13.6	7.8	42,410.2	51.6	121.7	6.0	14.1	7.6	3.0	0.6
273.2	9.4	6.9	1.2	0.9	96,549.0	34.6	35.8	4.4	4.6	23.328.4	26.6	114.0	2.6	11.1	4.4	1.0	....
808.8	18.4	15.4	7.0	5.8	77,398.4	50.6	65.4	9.2	11.9	19,081.8	25.0	131.0	3.4	17.8	3.2	1.4	0.6
748.0	42.2	13.9	14.6	4.8	209,848.4	132.2	63.0	25.6	12.2	54,844.0	80.2	146.2	10.8	19.7	74.6	4.0	0.8
109.6	11.8	7.3	2.0	1.2	115,267.8	50.4	43.7	9.6	8.3	29,980.8	44.4	148.1	5.4	18.0	56.2	1.8	....
638.4	30.4	21.6	12.6	9.0	94,580.6	81.8	86.5	16.0	16.9	24,863.2	35.8	144.0	5.4	21.7	18.4	2.2	0.8
455.2	56.4	15.8	16.8	4.7	249,841.0	161.6	64.7	30.2	12.1	69,114.4	116.6	168.7	15.6	22.6	1,535.0	6.8	1.0
594.0	16.8	8.7	3.2	1.7	135,515.6	66.8	49.3	7.0	5.2	37,635.0	67.2	178.6	5.4	14.3	1,138.0	2.8	0.2
861.2	39.6	24.2	13.6	8.3	114,325.4	94.8	82.9	23.2	20.3	31,479.4	49.4	156.9	10.2	32.4	397.0	4.0	0.8
795.0	79.2	19.6	27.8	6.9	293,272.2	221.2	75.4	44.0	15.0	87,912.2	160.6	182.7	22.2	25.3	3,084.6	5.8	1.0
045.8	21.0	9.6	4.8	2.2	157,341.6	84.4	53.6	11.2	7.1	47,695.6	85.2	178.6	7.6	15.9	2,581.2	2.0	0.2
749.2	58.2	31.3	23.0	12.4	135,930.6	136.8	100.6	32.8	24.1	40,216.6	75.4	187.5	14.6	36.3	1,103.4	3.8	0.8
184.2	98.6	22.0	38.8	8.7	332,257.0	325.4	97.9	54.4	16.4	101,549.4	224.8	221.4	29.2	28.8	2,109.4	7.0	0.8
792.0	27.4	11.5	7.6	3.2	177,352.6	125.4	70.7	12.4	7.0	54,779.8	120.0	219.1	9.8	17.9	1,421.2	2.8	....
392.2	71.2	34.2	31.2	15.0	154,904.4	200.0	129.1	42.0	27.1	46,769.6	104.8	224.1	19.4	41.6	698.2	4.2	0.8
52.88	60.84	17.2	21.24	6.0	251,833.20	185.12	73.5	33.56	13.3	71.166.04	126.76	178.1	16.8	23.6	1,482.24	5.22	0.84
82.92	17.28	9.1	3.76	2.0	136,405.32	72.32	53.0	8.92	6.5	38,683.92	68.68	177.5	6.2	16.0	1,040.20	2.20	0.08
89.96	43.56	26.6	17.48	10.7	115,427.88	112.80	97.7	24.64	21.3	32,482.12	58.08	178.8	10.6	32.6	442.04	3.12	0.76
200.0	193.4	39.4	8.8	1.8	379,022.8	633.6	167.2	18.8	5.0	121,160.2	535.0	441.6	16.6	13.7	3,520.2	3.20	
796.2	55.6	21.5	1.6	0.6	202,679.0	247.4	122.1	5.4	2.7	64,540.0	266.2	412.5	4.6	7.1	2,462.0	1.8	
203.8	137.8	59.3	7.2	3.1	176,344.0	386.2	219.0	13.4	7.6	50,620.0	268.8	474.7	12.0	21.2	1,062.0	1.2	

he age distribution of deaths is not given for the years 1870-71 because compilation was made only by
nial age periods prior to 1872. The year 1896 is taken as the end of the old series, because the new
ras in effect during the latter part of the year. Total and partial populations are separately estimated
e method of average annual increase, with no adjustment to balance to total. Census data are in bold
ype; only the total population was available by State census of 1874. Unknown ages are not dis-
ed. Also 206 persons of unknown sex, of whom only 6 were of specified ages, are not distributed in the
bution of population according to the State census of 1884.

DISEASES OF THE NERVOUS SYSTEM.

The following comparative statement shows the number of deaths and death rates per 100,000 population as compiled from diseases affecting the nervous system:

	Deaths.				
	1902.	*1901.*	*1900.*	*1899.*	*1898.*
Total	3,809	4,012	4,056	4,568	3,996
Meningitis	384	427	514	1,051	671
Apoplexy	1,249	1,243	1,259	1,225	1,144
Paralysis	760	799	788	842	789
Convulsions	473	550	542	474	540
Other nervous diseases	943	993	953	976	819
	Death rates per 100,000 population.				
Total	153.9	163.6	167.4	191.4	168.7
Meningitis	15.5	17.4	21.2	44.1	28.5
Apoplexy	50.5	50.7	52.0	51.3	48.7
Paralysis	30.7	32.6	32.5	35.3	33.6
Convulsions	19.1	22.4	22.4	19.9	23.0
Other nervous diseases	38.1	40.5	39.3	40.8	34.9

It would appear that the mortality from this class of diseases has rather declined during the past five years, and that excepting the epidemic prevalence of meningitis in 1899 no remarkable amounts of mortality have been recorded from any of the constituent causes.

This group undoubtedly includes many deaths not correctly assignable to diseases of the nervous system. Thus deaths from meningitis may be in part from "simple" or "idiopathic" meningitis, from epidemic cerebrospinal meningitis, or from meningitis following pneumonia, typhoid fever, and other acute infectious diseases. It may also include some deaths from tuberculous meningitis, the element of tuberculosis not having been properly specified in the physician's certificate; when known to be such these cases are included under tuberculous diseases.

Following is a detailed statement, by months, geographical sections and ages, of the mortality of the year from the more important diseases of the nervous system:

Table 31.—Deaths from meningitis in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	384	15.5	33	33	37	40	46	22	42	34	31	25	17	24
Upper Peninsula	47	17.5	2	3	4	6	4	4	3	8	.....	7	2	4
Northern counties	46	14.9	5	4	3	9	7	1	2	4	1	3	4	3
Central counties	53	11.9	6	5	3	6	5	3	9	4	3	2	4	3
Southern counties	238	16.4	20	21	27	19	30	14	28	18	27	13	7	14

Deaths by sex, 1902.		Deaths by ages, 1902.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
216	168	124	221	44	265	44	21	16	15	11	5	6	.....

* Includes one at unknown age.

Table 32.—Deaths from apoplexy in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	1,249	50.5	113	113	115	100	121	108	94	88	97	78	113	109
Upper Peninsula	57	21.2	3	6	5	3	4	5	5	3	9	1	4	9
Northern counties	88	28.5	6	12	18	4	10	8	4	3	9	5	7	2
Central counties	201	45.1	17	18	20	10	18	11	17	12	15	19	22	22
Southern counties	903	62.2	87	77	72	83	89	84	68	70	64	53	80	76

Deaths by sex, 1902.		Deaths by ages, 1902.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
670	579	36	51	5	56	13	22	34	87	165	317	343	207

* Includes five at unknown age.

Table 33.—Deaths from paralysis in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	760	30.7	75	65	53	69	73	70	61	54	53	55	69	63
Upper Peninsula	30	11.2	4	1	3	3	4	.....	3	3	3	1	3	2
Northern counties	63	20.4	2	5	7	7	3	8	4	5	3	4	8	7
Central counties	140	31.4	14	13	13	12	16	7	10	13	12	8	15	7
Southern counties	527	36.3	55	46	30	47	50	55	44	33	35	42	43	47

Deaths by sex, 1902.		Deaths by ages, 1902.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
387	373	1	6	2	8	4	13	15	33	70	171	266	178

* Includes two at unknown age.

Table 34.—Deaths from convulsions in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	473	19.1	45	36	43	56	43	28	35	32	43	30	45	37
Upper Peninsula	94	35.0	12	8	7	17	10	7	2	7	8	5	4	7
Northern counties	46	14.9	4	5	2	5	4	1	2	4	6	4	4	5
Central counties	72	16.1	5	5	10	7	8	4	9	3	7	5	4	5
Southern counties	261	18.0	24	18	24	27	21	16	22	18	22	16	33	20

Deaths by sex, 1902.		Deaths by ages, 1902.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
296	177	402	452	6	458	3	6	1	2	1	.....	1	1

DISEASES OF THE CIRCULATORY SYSTEM.

The total number of deaths, together with death rates per 100,000 population, from the causes here compiled may be seen in the following statement, which merely attempts to distinguish two varieties of returns, namely, deaths reported for some definite form of organic heart disease and deaths from endocarditis, pericarditis, diseases of the arteries and veins, and other and indefinitely reported diseases of the circulatory system, including deaths reported from "hemorrhage" with unspecified cause.

	Deaths.				
	1902.	*1901.*	*1900.*	*1899.*	*1898.*
Total diseases of the circulatory system	3,593	3,291	3,059	2,776	2,540
Heart disease	2,910	2,691	2,472	2,227	2,016
Other circulatory diseases	683	600	587	549	524
	Death rates per 100,000 population.				
Total diseases of the circulatory system	145.2	134.3	126.3	116.3	108.1
Heart disease	117.6	109.8	102.1	93.3	85.8
Other circulatory diseases	27.6	24.5	24.2	23.0	22.3

This does not include deaths from "heart failure," which are regarded as too worthless to be included among deaths from diseases of any specified organ.

The marked and steady increase in the registered mortality from heart disease is a feature of great interest. If deaths from "heart failure," a portion of which may due to actual organic disease of the heart, were included, the number of deaths from this cause would be still higher, but even as it is, the number of deaths from organic heart disease in Michigan in 1902 exceeded those from any other single cause recorded, although the total number of deaths from all forms of pneumonia was somewhat greater.

The distribution of deaths from organic heart disease during the year 1902 may be seen in Table 35, according to which it appears that the death rate from this disease increased progressively in passing from the Upper Peninsula to the Southern counties. This might have been expected as the deaths from heart disease are chiefly those of elderly persons, and the general age distribution of the population is more favorable to a high ratio of deaths from this cause in the older and more thickly settled portion of the State.

Table 35.—Deaths from heart disease in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	2,910	117.6	246	269	285	260	277	219	217	204	210	218	213	292
Upper Peninsula	126	46.9	6	10	14	11	12	10	13	9	12	10	11	8
Northern counties	243	78.6	20	26	23	19	23	18	24	18	18	14	15	25
Central counties	462	103.6	46	44	52	44	33	37	29	34	32	40	30	41
Southern counties	2,079	143.2	174	189	196	186	209	154	151	143	148	154	157	218

Deaths by sex, 1902.		Deaths by ages, 1902.*												
Males.	Females	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
1,591	1,319	37	49	32	81	91	89	125	225	395	698	829	374

*Includes three deaths at unknown age.

DISEASES OF THE RESPIRATORY SYSTEM.

Diseases of the respiratory system are among the most important causes of death in Michigan. In this group may be found the following figures for deaths and death rates per 100,000 population during the past five years:

	Deaths.				
	1902.	*1901.*	*1900.*	*1899.*	*1898.*
Total diseases of the respiratory system	4,041	4,377	3,877	3,990	3,236
Bronchitis	812	869	802	785	643
Pneumonia (total)	2,637	2,901	2,388	2,479	2,047
Bronchopneumonia	502	489	353	287	242
Pneumonia	2,135	2,412	2,035	2,192	1,805
Pleurisy	104	89	159	134	107
Other respiratory diseases	592	518	528	592	439
	Death rates per 100,000 population.				
Total diseases of the respiratory system	163.2	178.7	160.2	167.2	137.7
Bronchitis	32.8	35.5	33.1	32.9	27.4
Pneumonia (total)	106.5	118.4	98.7	103.9	87.1
Bronchopneumonia	20.3	20.0	14.6	12.0	10.3
Pneumonia	86.2	98.4	84.1	91.9	76.8
Pleurisy	4.2	3.4	6.6	5.6	4.5
Other respiratory diseases	23.9	21.4	21.8	24.8	18.7

The total given above does not include, however, the entire list of diseases chiefly affecting the respiratory organs. Pulmonary tuberculosis is a disease chiefly affecting the lungs, and many deaths registered from influenza are in their onset, course and termination, chiefly confined to the respiratory tract. Fatal cases of measles are frequently the results of pneumonia as a complication, and many deaths from organic heart, liver or kidney disease present terminal pneumonias as the closing incident of life. In order to compare the chief causes of death affecting the respiratory tract, we may consider the total compiled under this group above in connection with deaths from influenza and pulmonary tuberculosis:

	Deaths.				
	1902.	*1901.*	*1900.*	*1899.*	*1898.*
Total diseases of respiratory system, influenza and pulmonary tuberculosis	6,464	7,628	6,395	7,761	5,8[illegible]
Per cent to deaths from all causes	20.5	23.2	19.7	24.0	20.[illegible]
Diseases of the respiratory system	4,041	4,377	3,877	3,990	3,236
Influenza	335	1,099	500	1,673	455
Pulmonary tuberculosis	2,088	2,152	2,018	2,098	2,153
	Death rates per 100,000 population.				
Total diseases of respiratory system, influenza and pulmonary tuberculosis	261.0	311.3	264.3	325.2	248.7
Diseases of the respiratory system	163.2	178.7	160.2	167.2	137.7
Influenza	13.5	44.8	20.7	70.1	19.4
Pulmonary tuberculosis	84.3	87.8	83.4	87.9	91.6

Table 36.—Deaths from bronchitis in Michigan, 1902.

Geographical sections.	Total deaths-1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	812	32.8	100	86	95	94	77	43	58	45	40	52	45	77
Upper Peninsula	97	36.1	8	9	10	11	6	4	10	12	10	4	6	7
Northern counties	81	26.2	12	7	8	8	5	3	8	5	2	4	7	12
Central counties	109	24.4	18	11	8	12	9	7	8	2	5	10	9	10
Southern counties	525	36.2	62	59	69	63	57	29	32	26	23	34	23	48

Deaths by sex, 1902.		Deaths by ages, 1902.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
391	421	299	405	8	413	11	11	14	20	23	79	137	101

* Includes three at unknown age.

Table 37.—Deaths from bronchopneumonia in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	502	20.3	64	43	54	65	55	33	19	16	28	31	41	53
Upper Peninsula	74	27.6	4	4	5	8	7	4	3	1	10	8	8	12
Northern counties	37	12.0	4	3	3	6	1	2	3	1	4	1	4	5
Central counties	71	15.9	14	7	12	8	4	5	1	3	3	4	1	9
Southern counties	320	22.0	42	29	34	43	43	22	12	11	11	18	28	27

Deaths by sex, 1902.		Deaths by ages, 1902.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
283	219	209	333	16	349	8	8	8	9	17	37	40	25

*Includes one at unknown age.

Table 38.—Deaths from pneumonia in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	2,135	86.2	288	301	290	272	218	109	72	61	79	95	141	209
Upper Peninsula	261	97.2	18	24	25	36	41	20	8	14	15	13	22	25
Northern counties	288	93.2	39	30	38	33	27	12	15	8	10	11	20	45
Central counties	355	79.6	46	66	56	42	23	18	14	5	7	16	26	36
Southern counties	1,231	84.8	185	181	171	161	127	59	35	34	47	55	73	103

Deaths by sex, 1902.		Deaths by ages, 1902.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
1,189	946	457	710	55	765	116	122	136	187	192	226	238	147

*Includes six at unknown age.

DISEASES OF THE DIGESTIVE SYSTEM.

Diseases affecting the digestive system are of great numerical importance as causes of death. While the titles included are not all of the same precision and definite value, we may consider the movement of these diseases in Michigan for the past five years in the following statement:

	Deaths.				
	1902.	*1901.*	*1900.*	*1899.*	*1898.*
Total diseases of digestive system	4,011	4,354	5,224	4,293	3,956
Diseases of stomach	565	508	650	550	484
Diarrhea and enteritis under 2 years	1,400	1,768	2,338	1,720	1,633
Diarrhea and enteritis, 2 years and over	457	526	611	588	463
Hernia and obstruction of bowels	314	332	243	241	254
Cirrhosis of liver	234	211	190	145	148
Other liver diseases	330	287	404	351	329
Peritonitis	246	277	343	306	284
Appendicitis	273	263	221	223	165
Other digestive diseases	192	182	224	169	196
	Death rates per 100,000 population.				
Total diseases of digestive system	162.0	177.5	215.7	180.0	168.3
Diseases of stomach	22.8	20.7	26.8	23.1	20.6
Diarrhea and enteritis, under 2 years	56.6	72.1	96.6	72.2	69.5
Diarrhea and enteritis, 2 years and over	18.5	21.5	25.2	24.6	19.7
Hernia and obstruction of bowels	12.7	13.5	10.0	10.1	10.8
Cirrhosis of liver	9.5	8.6	7.8	6.1	6.3
Other liver diseases	13.3	11.7	16.7	14.7	14.0
Peritonitis	9.9	11.3	14.2	12.8	12.1
Appendicitis	11.0	10.7	9.1	9.3	7.0
Other digestive diseases	7.8	7.4	9.3	7.1	8.3

The year 1902 was evidently more favorable than either 1900 or 1901 as regards mortality from this class of diseases. The high death rate from diarrheal diseases of children under two years of age should be considered in connection with the fact that the other diseases given are not limited to any particular age periods, excepting only the complementary statement of diarrhea and enteritis over two years of age. Even on this basis, the mortality from infantile diarrhea is much greater than that of any other disease in this group, and if comparison were made of the deaths of infants from diarrhea per 100,000 population of the same age, it would be found that the death rates would be enormously increased.

In Tables 39, 40 and 41 the monthly prevalence, age, sex and geographical distribution are shown for diseases of the stomach, diarrhea and enteritis under two years and diarrhea and enteritis of persons aged two years and over:

Table 39.—Deaths from diseases of stomach in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	565	22.8	54	33	47	63	58	51	35	44	42	48	42	48
Upper Peninsula	31	11.5	4	....	4	2	4	1	1	2	3	1	4	5
Northern counties	72	23.3	4	5	7	6	9	5	5	4	8	6	8	5
Central counties	88	19.7	8	3	7	9	6	11	8	6	5	9	7	9
Southern counties	374	25.8	38	25	29	46	39	34	21	32	26	32	23	29

Deaths by sex, 1902.		Deaths by ages, 1902.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
303	262	157	185	3	188	5	20	22	39	59	71	94	65

* Includes two at unknown age.

Table 40.—Deaths from diarrhea and enteritis under 2 years, in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	1,400	56.6	42	40	44	49	63	61	195	326	333	137	61	49
Upper Peninsula	351	130.8	7	7	5	8	16	11	31	105	100	32	16	13
Northern counties	162	52.4	10	8	6	6	10	8	4	29	44	19	12	6
Central counties	170	38.1	5	3	5	7	4	5	14	43	47	26	6	5
Southern counties	717	49.4	20	22	28	28	33	37	146	149	142	60	27	25

Deaths by sex, 1902.		Deaths by ages, 1902.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
777	623	1,169	230	.....	1,399	..	.	...	...	.....	...		....

* Includes one at unknown age.

Table 41.—Deaths from diarrhea and enteritis over 2 years, in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	457	18.5	24	34	30	21	33	27	49	66	66	53	31	21
Upper Peninsula	48	17.9	3	2	3	2	3	3	4	8	12	5	2	1
Northern counties	48	15.5	3	5	3	2	1	3	7	4	5	8	5	2
Central counties	75	16.8	3	4	7	2	7	4	12	12	12	6	4	2
Southern counties	286	19.7	15	23	17	15	22	17	26	42	39	34	20	16

Deaths by sex, 1902.		Deaths by ages, 1902.*												
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
216	241	.....	128	15	143	24	24	22	19	33	61	79	49

* Includes three at unknown age.

DISEASES OF THE GENITO-URINARY SYSTEM.

The principal cause of death in this group is Bright's disease, from which 1,198 deaths were returned for the year 1902, corresponding to a rate of 48.4 per 100,000 population. All other diseases of this class amounted to 672 or 27.1 per 100,000 population. "Bright's disease" includes acute and chronic nephritis, in various form, besides a considerable number of deaths from "uremia" or "uremic poisoning," which terms cannot be regarded as very definite. It would seem from comparison with the immediately preceding years that there has been some tendency to increase in the number of deaths returned as from Bright's disease.

Years.	Deaths from Bright's disease.	Death rates per 100,000 population.
1902	1,198	48.4
1901	1,050	42.8
1900	852	35.2
.....	965	40.4
.....	915	38.9

r be found a statement of the incidence of mortality ase in the different sections of the State and by age ar:

Table 42.—Deaths from Bright's disease in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	1,198	48.4	109	97	129	114	106	99	94	85	82	94	82	107
Upper Peninsula	77	28.7	10	4	10	6	9	6	4	6	7	4	5	6
Northern counties	94	30.4	7	7	12	6	10	7	9	7	4	10	7	8
Central counties	196	44.0	15	16	21	21	18	18	20	12	13	13	15	14
Southern counties	831	57.2	77	70	86	81	69	68	61	60	58	67	55	79

Deaths by sex, 1902.		Deaths by ages, 1902.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
721	477	23	36	8	44	40	56	87	105	183	290	280	113

DEATHS FROM VIOLENCE.

Deaths from accidents and all other forms of violence, including suicides and homicides, so far as the returns distinguish the causes of violent deaths, may be found in the following statement for the past five years:

	Deaths.				
	1902.	*1901.*	*1900.*	*1899.*	*1898.*
Total deaths from violence	2,149	2,251	1,966	1,796	1,677
Accidental	1,861	1,978	1,740	1,579	1,455
Suicidal	244	238	211	189	189
Homicidal	44	35	15	28	33
	Death rates per 100,000 population.				
Total deaths from violence	86.8	91.8	81.2	75.3	71.3
Accidental	75.2	80.7	71.9	66.2	61.9
Suicidal	9.9	9.7	8.7	7.9	8.0
Homicidal	1.8	1.4	0.6	1.2	1.4

Table 43.—Deaths from suicide in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	244	9.9	13	14	29	16	26	21	22	20	12	30	17	24
Upper Peninsula	14	5.2	1	2	....	1	.....	2	1	1	1	3	1	1
Northern counties	24	7.8	1	....	4	1	2	3	4	1	1	3	.....	4
Central counties	44	9.9	4	4	3	1	4	7	4	1	5	3	2	6
Southern counties	162	11.2	7	8	22	13	20	9	13	17	5	21	14	13

Deaths by sex, 1902.		Deaths by ages, 1902.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
183	61	.....	.....	.....	.....	12	45	41	55	36	33	11	8

* Includes three at unknown ages.

Table 44.—Deaths from accidents in Michigan, 1902.

Geographical sections.	Total deaths, 1902.	Death rate per 100,000 estimated population.	Deaths by months, 1902.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	1,861	75.2	140	97	127	144	143	163	232	162	150	165	172	166
Upper Peninsula	414	154.2	35	24	27	24	30	42	47	35	35	46	41	28
Northern counties	232	75.1	13	10	13	29	20	22	21	19	12	20	27	26
Central counties	265	59.4	21	14	19	20	20	27	29	19	27	22	24	23
Southern counties	950	65.4	71	49	68	71	73	72	135	89	76	77	80	89

Deaths by sex, 1902.		Deaths by ages, 1902.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
	417	122	272	99	371	219	314	212	205	156	129	131	100

The age, sex and geographic distribution of the deaths reported from suicide and accidental violence may be found in Tables 43 and 44. The number of deaths from homicide is so small that it was not considered necessary to present a similar table, but full details may be found in the primary tables under this item in the classified list of causes of deaths.

PART III—MARRIAGES IN MICHIGAN DURING THE YEAR 1902.

There were 25,653 marriages returned to the State Department as having occurred in Michigan during the year 1902. This number exceeds that registered for the preceding year by 1,574, and corresponds to a rate of 20.7 persons married per 1,000 estimated population. These figures may be compared in Table 2, page 3, with the corresponding figures for previous years of registration, from which it appears that the number of marriages for the year was the largest and the marriage rate the highest ever recorded in the State.

SUMMARY OF THE REGISTRATION OF MARRIAGES IN MICHIGAN, 1902.

Some of the most important facts relative to the registration of marriages in Michigan during the year 1902 are herewith presented:

Total number of marriages returned, 1902	25,653
Persons married per 1,000 estimated population, 1902	20.7

The above statement does not include 52 marriages performed by Judges of Probate under the act authorizing secret marriages in certain cases. Thirty-six of these secret marriages were at illegal ages according to the general laws of the State and others gave legal sanction to common-law unions, the couples being supposed to have been regularly married by the communities in which they live. A table showing the age distribution of these marriages may be found on page 169.

As compared with the preceding year of registration, we have:

Increase of marriages registered for the year 1902 (25,653) over the number for 1901 (24,079)	1,574

As to the occurrence of marriages by months, we have:

More than average number	April, June, September, October, November, December
Less than average number	January, February, March, May, July, August
Favorite month for marriages, 1902	June, 2,753 or 27.1 per 1,000
Month of fewest marriages and lowest rate, 1902	March, 1,430 or 11.4 per 1,000

Of the 25,653 marriages, there were with respect to nativity:

Both bridegroom and bride of native birth	16,675 or 65.0 per cent
Both bridegroom and bride of foreign birth	3,365 or 13.1 per cent

Including mixed marriages, that is, marriages in which bridegroom and bride were of different nativities there were:

Males of native birth married, 1902	18,917 or 73.7 per cent
Males of foreign birth married, 1902	6,728 or 21.2 per cent
Females of native birth married, 1902	20,044 or 78.1 per cent
Females of foreign birth married, 1902	5,259 or 20.5 per cent

As to age at marriage, the most important groups were:

Males aged 20 to 24 years, both inclusive	9,814 or 38.3 per cent
Males aged 25 to 29 years, both inclusive	7,752 or 30.2 per cent
Females under 20 years of age	7,016 or 27.4 per cent
Females aged 20 to 24 years, both inclusive	10,271 or 40.4 per cent

MARRIAGES AND MARRIAGE RATES BY COUNTIES, 1902.

Besides the primary tables giving a full statement of the marriages returned from each county by months and periods of ages of persons married (Table I, page 159, and Table II, page 161) together with the statement of nativity of persons married by counties (Table III, page 166), reference may be made to Table 6, which shows the marriage rates for each county for the year. These rates are stated, as is the preferable statistical custom, as the number of *persons married* per 1,000 estimated population. In general such comparisons of marriages or persons married to the population are subject to further analysis on the basis of the number of unmarried persons in the population and their age-distribution. Such an exceptional rate as that of Berrien county, 59.8 per 1,000, is not comparable with the figures for other counties, owing to the special conditions. As stated elsewhere, this remarkably high rate of Berrien county is due to the large and increasing number of marriages of persons who are non-residents of the State. Aside from this exception, the rates of the other counties show considerable uniformity.

MARRIAGES RETURNED BY MONTHS, 1893-1902.

In Table 45 the marriages returned in Michigan for the past ten years are shown according to the months in which the ceremonies were performed. For 1902 the largest number occurred in June, 2,753, and the least number, 1,430, was in February. The distribution of marriages through the year must be considerably affected, however, by the large number of foreign marriages in Berrien county, most of which occurred during the summer excursion season.

Table 45.—Marriages returned, by months, for the years 1893-1902, with average for the ten-year period.

Years.	Total marriages.	Months of marriages.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1893	19,197	**1,452**	*1,273*	1,318	1,663	1,574	1,769	1,408	1,356	1,730	2,018	**2,060**	1,574	2
1894	18,220	1,366	*1,060*	1,403	1,552	1,348	1,486	1,262	1,256	1,704	**2,034**	1,992	1,754	3
1895	18,952	1,389	1,342	*1,324*	1,536	1,456	1,690	1,367	1,349	1,658	**2,110**	2,036	1,694	1
1896	18,897	1,443	1,271	1,368	1,684	1,361	1,762	1,305	*1,288*	1,759	1,826	**2,023**	1,846	6
1897	18,579	*1,179*	1,273	1,426	1,441	1,354	1,828	1,235	1,258	1,719	1,887	**2,044**	1,935	.....
1898	20,138	1,397	*1,302*	1,400	1,613	1,482	2,056	1,315	1,487	1,793	2,043	**2,264**	1,979	7
1899	21,877	1,343	*1,311*	1,324	1,765	1,581	2,185	1,681	1,767	2,095	2,323	**2,464**	2,038	.....
1900	23,295	1,717	1,541	*1,322*	1,765	1,779	2,398	1,800	1,876	2,192	**2,496**	2,332	2,075	2
1901	24,079	1,624	1,372	*1,360*	1,922	1,779	2,537	1,984	1,897	2,376	**2,642**	2,321	2,211	4
1902	25,653	1,767	*1,430*	1,571	2,190	1,846	**2,753**	2,009	1,982	2,455	2,572	2,559	2,533	6
Average 1893-1902	20,889	1,468	*1,318*	1,382	1,713	1,556	2,046	1,532	1,547	1,946	2,195	**2,210**	1,964	3

Maxima in bold face; minima in *italics*.

MARRIAGES BY MONTHS AND QUARTERS, 1902.

The distribution of marriages during the year 1902 is further sh in Table 46, where figures are given, not only for the numbers retur but also, showing the average number per day for each month, the r on a standard scale and the rate per 1,000 persons married by mo for the year. The month of highest rank, considered as to the ch for marriage, was June, while March was the least frequently cho

Table 46.—Marriages in Michigan, by months and quarters, 1902.

Year and months.	Number of marriages, 1902: By months.	Number of marriages, 1902: By quarters.	Average number per day, 1902.	Rank.	Persons married per 1,000 population.	Ten-year period, 1893-190: Average number.	Ten-year period, 1893-190: Average daily number.*
Year	25,652	.....	70.3	1,300	30.7	22,055	60.4
January	1,767		57.0	61	16.6	1,550	50.0
February	1,420	4,708	51.1	78	13.0	1,392	49.6
March	1,871		60.7	72	15.0	1,456	47.1
April	2,160		72.0	104	21.6	1,809	60.3
May	1,546	6,759	50.5	85	17.6	1,643	53.0
June	2,753		91.8	132	27.1	2,160	72.0
July	2,016		64.8	92	19.2	1,517	52.2
August	1,902	6,426	63.9	91	18.9	1,663	52.7
September	2,435		81.2	116	24.0	2,055	68.5
October	2,572		83.0	117	24.5	2,317	74.7
November	2,550	7,664	85.3	121	25.2	2,353	77.8
December	2,522		81.7	116	24.1	2,074	66.9
Unknown	6	6	...	...	...	3	...
Average	2,138	.....	.....	.....	.....	.....	.....

*Numbers given in Table 45 multiplied by 1.0558, the ratio between the estimated population of Michigan in 1902 a average estimated population of the period 1893-1902. The monthly and daily numbers are, therefore, directly compara the year and ten year period.

NATIVITY OF PERSONS MARRIED IN MICHIGAN, 1902.

The facts in regard to the nativity of persons married in Michi during the year 1902, which may be found in detail in Table III, p 166, for each county of the State, are summarized in Table 47, and compared by means of five-year averages with the corresponding figu for preceding years of registration in Table 48.

Out of the 25,653 marriages during the year, 16,675 were those which both the bridegroom and bride were of native birth. This c responds to a percentage of 65.0. The number of foreign born cou was 3,301, or 12.9 per cent. The percentage of native born couples creased somewhat, on the whole, from the earlier years of registrati

Table 47.—By nativity, the number and per cent of brides and bridegrooms returned for the year 1902.

Bridegrooms and brides—nativity specified.		Brides, 1902.			Bridegrooms, 1902.	
		Native born.	Foreign born.	Unknown.	Total of each nativity.	Per cent of each nativity.
Bridegrooms	Native born	16,675	1,957	285	18,917	73.7
	Foreign born	3,365	3,301	62	6,728	26.2
	Unknown	4	1	3	8	.0
Brides	Total of each nativity	20,044	5,259	350	25,653	.....
	Per cent of each nativity	78.1	20.5	1.4	.....	100.0

Table 48.—Nativity of marriages in Michigan for the years 1901-1902; compared with averages for six successive quinquennial periods, 1871-1900.

Years and periods averaged.	Nativity of marriages.—Per cent of total.				
	Both native born.	Both foreign born.	Foreign groom and native bride.	Native groom and foreign bride.	One or both unknown.
Average, 1871-75	59.7	18.5	12.3	7.0	2.6
Average, 1876-80	63.2	14.0	13.3	7.4	2.2
Average, 1881-85	58.2	19.4	12.4	8.7	1.3
Average, 1886-90	56.4	20.3	13.2	8.1	2.0
Average, 1891-95	58.0	18.2	13.2	7.9	2.6
Average, 1896-1900	63.1	14.0	12.5	8.0	2.3
1901	64.8	12.9	12.8	7.9	1.6
1902	65.0	12.9	13.1	7.6	1.3

AGES OF PERSONS MARRIED IN MICHIGAN, 1902.

Table II, beginning on page 161, shows the age distribution of persons married in Michigan by counties during the year, and Table IV, on page 168, shows the various age combinations of persons married, by sex; that is to say, how many males under 20 married females of the same age period; how many married females aged 20-24 years, 25-29 years, and so on in order. The group of ages at which the greatest number of marriages occurred is that in which both the males and females were aged from 20-24 years, the number of marriages at these ages being 4,922. Next in order comes the group of males aged 20-24 years and females under 20, of which the number was 4,317, and then the group of males aged 25-29 years, with females aged 20-24 years, numbering 3,750. These three groups include 12,989 marriages or a trifle over 50 per cent of the total number recorded. The proportions of males and females married at each age period may be seen in Tables 49 and 50, respectively, with comparisons of six quinquennial periods.

In 1902 the favorite marriage age for males was the period 20-24 years, at which 38.3 per cent of males were married.

With females the proportion of marriages under 20 years of age is somewhat less than it was during the earlier years of registration, being only 27.3 per cent.

Table 49.—Percentage of males married in Michigan at specified periods of age for the years 1901-1902, compared with averages for six quinquennial periods, 1871-1900.

Years and periods averaged.	Ages of males married, 1871-1900.														
	Under 20.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.
Average, 1871-75	2.6	41.2	29.5	10.6	5.5	3.3	2.3	1.7	1.0	0.8	0.5	0.3	0.1	....	0.6
Average, 1876-80	2.6	40.8	29.8	10.8	5.6	3.2	2.2	1.6	1.1	0.8	0.5	0.3	0.1	....	0.5
Average, 1881-85	2.3	39.5	30.7	11.4	5.7	3.2	2.2	1.6	1.0	0.9	0.5	0.3	0.1	....	0.4
Average, 1886-90	2.1	37.7	32.4	12.2	5.7	3.0	2.4	1.5	1.1	0.8	0.6	0.3	0.1	....	0.1
Average, 1891-95	1.9	38.1	30.8	12.7	6.0	3.2	2.3	1.7	1.2	0.9	0.7	0.3	0.1	....	.....
Av., 1896-1900	1.8	37.7	30.6	12.5	6.6	3.4	2.5	1.7	1.2	0.9	0.6	0.3	0.2	0.1	.....
1901	1.9	37.2	30.3	13.0	6.6	3.8	2.4	1.6	1.2	0.9	0.6	0.3	0.1	....	.....
1902	1.9	38.3	30.2	12.0	6.6	3.7	2.4	1.7	1.2	0.8	0.6	0.2	0.2	....	.....

Table 50.—Percentage of females married in Michigan at specified periods of age for the years 1901-1902, compared with averages for six quinquennial periods, 1871-1900.

Years and periods averaged.	Ages of males married, 1871-1900.														
	Under 20.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.
Average, 1871-75	36.9	36.5	12.7	5.0	3.0	2.0	1.3	0.8	0.5	0.3	0.2	....	....	....	0.9
Average, 1876-80	37.4	37.4	11.7	4.7	3.1	1.9	1.3	0.8	0.5	0.3	0.2	....	....	....	0.7
Average, 1881-85	33.8	38.7	13.7	4.9	3.1	1.9	1.3	0.8	0.5	0.3	0.2	0.1	....	....	0.6
Average, 1886-90	32.3	39.5	14.2	5.2	2.9	1.9	1.3	0.9	0.6	0.4	0.2	0.1	....	....	0.2
Average, 1891-95	30.8	40.6	14.3	5.3	3.1	2.0	1.4	1.0	0.6	0.5	0.2	0.1	....	....	.....
Av., 1896-1900	28.1	41.3	15.5	5.7	3.4	2.0	1.5	1.0	0.7	0.5	0.2	0.1	....	....	.....
1901	27.2	40.7	16.5	6.2	3.4	2.1	1.4	0.9	0.6	0.4	0.3	0.1	....	....	.....
1902	27.3	40.4	16.4	6.0	3.5	2.3	1.5	1.0	0.7	0.4	0.2	0.1	....	....	.....

PART IV.—DIVORCES IN MICHIGAN DURING THE YEAR 1902.

There were 2,828 divorces granted in Michigan during the year 1902, according to the returns of the county clerks to the Secretary of State. This number, as shown in Table 6, corresponds to a rate of 2.3 persons divorced per 1,000 living population, which it will be noted, is about one-tenth of the marriage rate for the year; in other words, there was about 1 divorce granted to every 10 marriages in the State during the year. It should be observed, however, that the marriages are based on the unmarried population at marriageable ages, while the divorces are drawn from the number of married couples in Michigan, hence there can be no direct comparison between the frequency of marriage and divorce considered with reference to the population capable of contributing to these events without further analysis of the figures.

CHILDREN AFFECTED BY DISSOLUTION OF FAMILIES, 1902.

From Table II, page 176, which, however, is presented in condensed form in Table 51 herewith, it will be noted that of the 2,828 divorces granted during the year, 817, or 28.9 per cent, were granted on the application of the husband, and 2,011 or 71.9 per cent, on application of the wife. 2,280 of the couples were married in Michigan.

It is noticeable that in 1,374 cases of divorces granted during the year, or about 48 per cent of the total number there were no children in the families broken up by divorce.

Table 51.—Children affected by divorces in Michigan during the year 1902, showing the relation of sex of complaint to size of family.

Complainants.	Total divorces granted, 1902.	Number of children in family.													
		None.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	Unk.
Total divorces	2,828	1,374	669	354	189	93	51	36	24	7	7	1	3	1	19
Husbands	817	474	149	100	45	24	8	4	5	3	.....	.....	.....	.....	5
Wives	2,011	900	520	254	144	69	43	32	19	4	7	1	3	1	14
Per cent of husbands	28.9	34.5	22.3	28.2	23.8	25.8	15.7	11.1	20.8	42.9	.....	.....	.....	.....	26.3
Per cent of wives	71.1	65.5	77.7	71.8	76.2	74.2	84.3	88.9	79.2	57.1	100.0	100.0	100.0	100.0	73.7
Total number of children affected	3,129	0	669	708	567	372	255	216	168	56	63	10	33	12	.....

The percentage of applications of wives in these cases is somewhat lower than the average, as is also true of families having two, three and four children. The total number of children affected by divorces granted was 3,129 or an average of over one child to each divorce granted in the State.

DURATION OF MARRIAGE PRIOR TO DIVORCE, 1902.

According to Table 52 there were 905 divorces granted in which the couples had been married less than five years; then follows the group 5-9 years, inclusive, 771; 10-14 years, 457; 15-19 years, 283. The number of divorces granted decreases very rapidly from this point, until the period 40-44 years is reached, which shows only 6 divorces. According to the returns, there were no divorces granted after this period.

Table 52.—Duration of marriages terminated by divorces granted in Michigan during the year 1902, showing the relation of sex of complaint to lapse of time before divorce.

Complainants.	Divorces granted, 1902.	Duration of marriage before divorce.																
		Years under five.					Five-year periods.											
		Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	50 to 54.	55 to 59.	Unk.
Total divorces....	2,828	91	190	215	216	193	905	771	457	283	177	111	68	34	6	....	....	16
Husbands.....	817	37	58	57	63	59	274	222	134	67	51	26	23	12	4	....	....	4
Wives.....	2,011	54	132	158	153	134	631	549	323	216	126	85	45	22	2	....	....	12
Per cent of husbands..	28.9	40.7	30.5	26.5	29.2	30.6	30.3	28.8	29.3	23.7	28.8	23.4	33.8	35.3	66.7	....	....	25.0
Per cent of wives.....	71.1	59.3	69.5	73.5	70.8	69.4	69.7	71.2	70.7	76.3	71.2	76.6	66.2	64.7	33.3	....	....	75.0

CAUSES OF DIVORCES GRANTED IN MICHIGAN, 1902.

According to the returns, as shown in Table 53, "Cruelty" was the leading cause, as usual, for divorces granted in this State during the year, 966 divorces, or 34.2 per cent of the total number granted, being attributable to it, as compared with 36.0 per cent for 1901. Of this number, 327 were granted on complaint of the husband, and 639 on complaint of the wide. The next in order as a leading cause for divorce was "desertion," with 621 divorces, 341 being granted on complaint of the husband and 280 on complaint of the wife. "Non-support" would follow next in order, there being 409 divorces from this cause, 403 being on complaint of the wife. "Drunkenness" shows 42 divorces granted, 8 being on complaint of the husband and 34 on complaint of the wife.

Table 53.—Principal causes of divorce in Michigan during the year 1902, showing by sex the percentage of complainants from each cause.

Causes alleged.	Number of divorces granted, 1902.			Per cent of total.		
	Total.	To husbands.	To wives.	Total.	To husbands.	To wives.
All causes	2,828	817	2,011	100.0	100.0	100.0
Adultery	*87*	*72*	*15*	3.1	8.8	0.7
Adultery (sole cause alleged)	62	52	10	2.2	6.4	0.5
Adultery (with other causes)	25	20	5	0.9	2.4	0.2
Cruelty	*1,477*	*393*	*1,084*	52.2	48.1	53.9
Cruelty (sole cause alleged)	966	327	639	34.2	40.0	31.8
Cruelty (with other causes)	511	66	445	18.1	8.1	22.1
Desertion	*864*	*389*	*475*	30.6	47.6	23.6
Desertion (sole cause alleged)	621	341	280	22.0	41.7	13.9
Desertion (with other causes)	243	48	195	8.6	5.9	9.7
Drunkenness	*151*	*12*	*139*	5.3	1.5	6.9
Drunkenness (sole cause alleged)	42	8	34	1.5	1.0	1.7
Drunkenness (with other causes)	109	4	105	3.9	0.5	5.2
Non-support	*948*	*11*	*937*	33.5	1.3	46.6
Non-support (sole cause alleged)	409	6	403	14.5	0.7	20.0
Non-support (with other causes)	539	5	534	19.1	0.6	26.6

PART V.—BIRTHS IN MICHIGAN DURING THE YEAR 1902.

The number of births in Michigan during the year 1902, according to the returns received from the county clerks, was 45,546, an increase of 2,325 births, as compared with the returns of the preceding year. The birth rate for the year 1902 was 18.4 per 1,000 estimated population.

SUMMARY OF THE ENUMERATION OF BIRTHS FOR THE YEAR 1902.

The following statements include the more important features of the enumeration of births in Michigan for the year 1902:

Total number of births returned, 1902	45,546
Birth rate per 1,000 estimated population, 1902	18.4

Exclusive of stillbirths, there were:

Children born alive, 1902	45,072
Children born alive per 1,000 estimated population, 1902	18.2

Compared with the previous year, we have:

Increase of births returned for 1902 (45,546) over the number returned for 1901 (43,221)	2,325

The following is the distribution of births returned according to sex:

Male children born, 1902	23,484
Female children born, 1902	22,011
Sex unknown or unspecified	51
Males born per 100 births of females	107

The parent nativity of children born in 1902, exclusive of births to parents of different nativities, may be stated:

Born of parents both of native birth, 1902	22,001
Born of parents both of foreign birth, 1902	13,942

Of the 45,546 children born in 1902, according to the returns, there were:

Stillbirths (males 319, females, 227; unknown, 29	575
Stillbirths rate per 1,000 estimated population	0.2
Stillbirths per 1,000 living births	12.6

Plural births are of interest. Including seven sets of triplets, there were reported:

Twin children (males, 503; females, 472, unknown sex, 5)	980

The reported rate of illegitimacy is low for Michigan. In 1902 there were returned:

Illegitimate births (males, 199; females, 184)	383
Illegitimate births per 1,000 births, 1902	8.4

Table 54.—Births returned, by months, for the years 1893-1902 inclusive, with average for the ten-year period. (Stillbirths included).

Years.	Total for year.	Months.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1893	47,722	*3,346*	3,391	4,069	3,934	3,924	3,901	4,158	4,351	4,246	4,165	3,916	4,263	58
1894	44,596	*2,889*	3,020	3,854	3,896	3,866	3,735	3,917	3,981	3,778	3,750	3,684	**4,204**	22
1895	46,273	*3,204*	3,240	3,827	4,742	4,022	3,745	3,989	**4,346**	4,214	3,997	3,750	4,159	38
1896	46,302	3,322	*3,184*	3,781	3,862	3,918	3,697	3,879	**4,405**	4,208	3,994	3,842	4,155	55
1897	43,688	3,295	*3,207*	3,777	3,654	3,794	3,423	3,739	**3,863**	3,853	3,717	3,571	3,767	28
1898	43,462	*3,043*	3,173	3,856	3,534	3,724	3,554	3,612	3,894	3,807	3,801	3,492	**3,920**	52
1899	41,818	*3,099*	3,134	3,681	3,652	3,494	3,199	3,633	**3,785**	3,758	3,454	3,262	3,636	31
1900	43,699	*3,069*	3,105	3,821	3,930	3,755	3,501	3,777	**3,983**	3,880	3,658	3,415	3,762	43
1901	43,221	*2,974*	3,087	3,782	3,682	3,594	3,492	3,745	3,926	**3,953**	3,633	3,438	3,881	34
1902	45,546	3,220	*3,260*	3,881	3,667	3,888	3,786	4,065	**4,154**	3,963	3,893	3,741	4,049	39
Average 1893-1902	44,632	*3,146*	3,174	3,833	3,755	3,798	3,603	3,851	**4,069**	3,966	3,806	3,611	3,980	40

Maxima in **bold face**; minima in *italics*.

Table 55.—Parent nativity of children born in Michigan during the year 1902. (Stillbirths included).

Nativity of parents of children born in 1902.	Number of births, 1902.				Per cent of total.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
All nativities	45,546	23,484	22,011	51	100.0	100.0	100.0	100.0
Both parents native born	22,001	11,441	10,535	25	48.3	48.7	47.9	49.0
Both parents foreign born	13,942	7,150	6,785	7	30.6	30.4	30.8	13.7
Foreign father and native mother	5,492	2,801	2,686	5	12.1	11.9	12.2	9.8
Foreign mother and native father	3,249	1,637	1,607	5	7.1	7.0	7.3	9.8
Unknown mother, father native	115	61	53	1	0.3	0.3	0.2	2.0
Unknown mother, father foreign	86	42	44	.....	0.2	0.2	0.2	.....
Unknown father, mother native	198	99	99	.....	0.4	0.4	0.4	.....
Unknown father, mother foreign	51	22	28	1	0.1	0.1	0.1	2.0
Both unknown	412	231	174	7	0.9	1.0	0.8	13.7
One or both native	31,055	16,039	14,980	36	68.2	67.3	68.1	70.6
One or both foreign	22,820	11,652	11,150	18	50.1	49.9	50.7	35.3

Table 56.—Parent nativity of children born in Michigan for each of the years 1893-1902 inclusive, with average for the ten-year period. (Stillbirths included).

Years.	Nativity of parents of children—per cent of total.												
	Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	One or both unknown.	Father—			Mother—			One or both parents native born.*	One or both parents foreign born.*
						Native.	Foreign.	Unknown.	Native.	Foreign.	Unknown.		
1893	41.1	38.5	11.0	6.6	2.9	48.0	50.0	2.1	52.6	45.3	2.1	59.5	56.7
1894	43.0	35.6	11.4	6.8	3.3	50.4	47.9	1.7	54.9	42.5	2.6	62.3	54.8
1895	43.4	35.5	11.3	6.8	3.0	50.7	47.0	2.2	55.3	42.5	2.2	62.6	54.1
1896	43.0	35.5	11.8	6.8	3.0	50.0	47.5	2.5	55.3	42.5	2.3	62.3	54.5
1897	43.6	34.3	11.7	7.2	3.0	51.2	46.2	2.6	55.9	41.8	2.4	63.3	53.6
1898	44.8	32.9	12.0	7.3	3.0	52.4	45.2	2.4	57.5	40.6	2.0	65.1	52.8
1899	44.3	33.4	12.0	7.5	2.9	52.0	45.6	2.4	56.8	41.0	2.2	64.5	53.2
1900	45.6	32.5	12.1	7.3	2.5	53.2	44.7	2.0	58.1	39.9	2.0	65.7	52.0
1901	47.1	31.4	12.2	7.4	2.0	54.7	43.7	1.6	59.7	38.9	1.5	67.3	51.2
1902	48.3	30.6	12.1	7.1	1.9	55.7	42.9	1.4	60.8	37.8	1.4	68.2	50.1
Average, 1893-1902	44.4	34.0	11.7	7.1	2.8	51.8	46.1	2.1	56.7	41.3	2.1	64.1	53.3

* Including cases where nativity of either parent is unknown.

Table 57.—Parent nativity of children born in Michigan during the year 1902, compared with averages for six quinquennial periods, 1871-1900. (Stillbirths included).

Years and periods averaged.	Nativity of parents—per cent of total.				
	Both native born.	Both foreign born.	Foreign father and native mother.	Native father and foreign mother.	One or both unknown.
Average, 1871-75	44.8	34.3	9.5	5.2	6.2
Average, 1876-80	46.0	34.1	11.0	5.7	3.1
Average, 1881-85	43.7	35.5	11.5	6.2	2.9
Average, 1886-90	42.7	37.6	10.7	6.2	2.8
Average, 1891-95	41.5	37.8	11.1	6.5	3.1
Average, 1896-1900	44.3	33.7	11.9	7.2	2.9
1901	47.1	31.4	12.2	7.4	2.0
1902	48.3	34.0	12.1	7.1	1.9

CLIMATOLOGICAL DATA FOR MICHIGAN, 1902.

The following data relating to the meteorological conditions in Michigan for the year 1902 have been kindly supplied to this Department by Mr. C. F. Schneider, Director of the Michigan State Weather Service, in cooperation with the Climate and Crop Service of the Weather Bureau, U. S. Department of Agriculture. Fuller details may be found in the annual report of the State Weather Service for the year, but the data herewith presented will be found convenient for comparing with the mortality statistics contained in this Report.

In Table 58 the temperature and amount of precipitation for the year are compared with the years 1888-1901, both inclusive, this period extending back to the formation of the State Weather Service. The average of the statistics for these years constitutes the "normal" which is used as a basis of reference in making comparisons of the meteorology of the current year.

REVIEW OF THE YEAR 1902.

Annual Temperature.—The mean annual temperature for 1902 was 45.2 degrees, or 0.6 of a degree above the normal. February was the coldest month of the year with a mean of 19.8 degrees, which is nearly normal for that month. July was the warmest month, its mean temperature being 69.4 degrees, which was only 0.3 of a degree above the normal.

Wide departures from the normal occurred in March, June and November, the excess departure in March being the greatest. Altogether the mean temperatures of five months were above the normal; the remaining seven were below. The greatest excess of temperature occurred during March and November and the greatest deficiency during June.

The maximum temperature for the year, 98 degrees, occurred on July 7th at East Tawas and on July 24th at Traverse City; the lowest temperature, —31 degrees, occurred on January 28th at Humboldt; 1902 is the only year since the beginning of observations throughout the State in 1888 that has not recorded a maximum temperature of 100 degrees, or over. The comparatively low temperature was one of the features of the summer.

Annual Precipitation.—The annual mean total precipitation was 32.53 inches, which is 2.97 inches more than the normal. An analysis of the tables develops the fact that the precipitation in the Upper Peninsula and northern counties was deficient, but the unusual excess, ranging from 6.00 to 7.00 inches, in the central and southern sections brings the average for the State above the normal. The precipitation in the southern half of the Lower Peninsula was not only excessive, but the annual amount and more particularly the rainfall of the spring and summer months exceeded any previous record. In the southern section the annual total was 37.70 inches, or 6.00 inches above the normal,

while in the central counties, where the normal is less, the annual average total, 36.80 inches, was 7.32 inches in excess of the normal conditions.

It is also worthy of note that while the precipitation was excessive that it did not fall in unusually large amounts on any one or two days, but occurred in many moderate showers; it was unfortunate that the worst of these rainy periods occurred at the time of the summer and fall harvests.

The precipitation averaged more than normal during six months. January and February were drier than any preceding January and February of which this office has record.

Pressure.—The average annual barometric pressure for the State, reduced to 32 degrees Fah. and standard gravity and corrected for elevation, was 29.99 inches. The barometer averaged highest, 30.09 inches, during January, and lowest, 29.90 inches, during June. The highest reading of the year, 30.92 inches, occurred on January 28th at Port Huron; the lowest reading, 28.70 inches, occurred on February 28th at Grand Haven; this makes an extreme yearly range of 2.22 inches. The average range of pressure for the State for the year was 1.53 inches; the greatest average monthly range, 1.67 inches, occurred during February and the least average monthly range, 0.53 of an inch, occurred during July.

Wind Movement.—The average monthly total wind movement for the year was 7,562 miles and the average hourly velocity for the year was 10.4 miles. The maximum velocity of wind for the year was 55 miles from the southwest at Detroit on April 26th.

The greatest monthly average total wind movement, 8,992 miles, occurred during December and the least monthly average total wind movement, 6,064 miles, occurred during July. The average hourly velocity during December was 12.1 miles; during July it was 8.2 miles.

January.—The mean temperature was 21.4 degrees, or 0.1 of a degree below the normal. The highest temperature was 52 degrees at Coldwater on the 8th; the lowest was —31 degrees at Humboldt on the 28th.

The average total precipitation was 0.78 of an inch, or 1.57 inches below the normal. The greatest monthly amount, 3.44 inches, occurred at Calumet, and the least, 0.08 of an inch, occurred at Bay City.

February.—The mean temperature was 19.8 degrees, or 0.6 of a degree above the normal. The highest temperature was 58 degrees at St. Joseph on the 26th and the lowest was—26 degrees at Humboldt on the 19th.

The average total precipitation was 1.06 inches, or 0.90 of an inch below the normal. The greatest monthly amount, 3.12 inches, occurred at Chatham, and the least, 0.20 of an inch, at Hayes.

March.—The mean temperature was 36.3 degrees, or 9.0 degrees above the normal. The highest temperature was 74 degrees at Owosso on the 30th, and the lowest, 7 degrees, occurred at Thomaston on the 4th, at Humboldt on the 5th and at Gaylord on the 18th. The average to[illegible] precipitation was 2.54 inches, or 0.40 of an inch above the [illegible] The greatest monthly amount, 6.22 inches, occurred at Vassa[illegible] least, 0.01 of an inch, at Newberry.

April.—The mean temperature was 43.3 degrees, or [illegible] below the normal. The highest temperature was 8[illegible]

on the 22nd, and the lowest was 9 degrees at Baraga and Iron Mountain on the 7th and at Calumet on the 29th.

The average total precipitation was 1.67 inches, or 0.50 of an inch below the normal. The greatest monthly amount, 3.96 inches, occurred at Chatham and the least, 0.40 of an inch, at Mt. Clemens.

May.—The mean temperature was 55.4 degrees, or 1.0 degree above the normal. The highest temperature was 92 degrees at Allegan on the 18th, at Plymouth on the 19th and at Stanton on the 22nd; the lowest was 14 degrees at Humboldt on the 8th.

The average total precipitation was 3.25 inches, or 0.83 of an inch above the normal. The greatest monthly amount, 8.80 inches, occurred at Gaylord, and the least, 0.70 of an inch at Ewen.

June.—The mean temperature was 59.8 degrees, or 4.6 degrees below the normal. The highest temperature was 94 degrees at Jackson on the 15th; the lowest was 25 degrees at Wetmore on the 5th.

The average total precipitation was 5.12 inches, or 2.28 inches above the normal. The greatest monthly amount, 10.40 inches, occurred at Ball Mountain and the least, 1.13 inches, occurred at Thomaston.

July.—The mean temperature was 69.4 degrees or 0.3 of a degree above the normal. The highest temperature was 98 degrees at East Tawas on the 7th and at Traverse City on the 24th; the lowest was 23 degrees at Wetmore on the 16th.

The average total precipitation was 5.24 inches, or 2.48 inches above the normal. The greatest monthly amount, 11.06 inches, occurred at Owosso; the least monthly amount, 1.04 inches, occurred at Detour.

August.—The mean temperature was 64.2 degrees or 2.1 degrees below the normal. The highest temperature was 95 degrees at Kalamazoo on the 3rd; the lowest was 29 degrees at Newberry on the 29th.

The average total precipitation was 1.53 inches, or 1.13 inches below the normal. The greatest monthly amount, 4.05 inches, occurred at Port Huron; the least monthly amount, a trace, occurred at Somerset.

September.—The mean temperature was 58.0 degrees, or 2.2 degrees below the normal. The highest temperature was 90 degrees at Mt. Clemens on the 1st and at Owosso on the 4th; the lowest was 19 degrees at Sidnaw on the 14th.

The average total precipitation was 3.96 inches, or 1.36 inches above the normal. The greatest monthly amount, 8.22 inches, occurred at Hagar; the least, 0.23 of an inch, occurred in Petoskey.

October.—The mean temperature was 48.3 degrees, or 0.9 of a degree below the normal. The highest temperature was 81 degrees at Wasepi on the 24th; the lowest was 10 degrees at Ewen on the 9th.

The average total precipitation was 2.46 inches, or 0.34 of an inch below the normal. The greatest monthly amount, 6.19 inches, occurred at Hagar; the least, 0.30 of an inch, occurred at Ludington.

November.—The mean temperature was 47.2 degrees, or 7.7 degrees above the normal. The highest temperature was 76 degrees at Carsonville on the 11th; the lowest was 4 degrees at Ishpeming on the 30th.

The average total precipitation was 2.64 inches, or 0.10 of an inch below the normal. The greatest monthly amount, 6.00 inches, occurred at Gaylord; the least, 0.40 of an inch, occurred at Roscommon.

December.—The mean temperature was 24.1 degrees or 1.5 degrees below the normal. The highest temperature was 59 degrees at Char-

lotte on the 4th; the lowest was —15 degrees at Thomaston on the 12th.

The average total precipitation was 2.28 inches, or 0.16 of an inch above the normal. The greatest monthly amount, 4.59 inches, occurred at Calumet; the least monthly amount, 0.61 of an inch, occurred at Owosso.

Table 58.—Temperature and amount of precipitation in Michigan during the year 1902 compared with previous years.

Year.	Temperature.					Average yearly precipitation (inches).	Average total snowfall (inches).
	Yearly mean.	Highest.	Date.	Lowest.	Date.		
1888	43.8	102	June 17	—36	January 21, February 9	28.68	67.9
1889	45.3	102	July 8	—33	February 24	26.86	57.7
1890	45.6	104	August 3	—35	March 6	34.23	44.6
1891	46.2	103	August 8	—28	February 4	30.65	42.8
1892	44.6	101	July 26	—26	January 20	33.69	50.1
1893	43.6	100	June 20, July 13, August 10	—31	January 15	34.55	81.2
1894	46.8	102	July 27	—31	February 24	28.00	45.2
1895	44.6	101	July 7	—38	February 6	26.90	71.4
1896	45.8	100	June 6	—29	February 17	31.74	42.8
1897	44.9	104	July 19	—43	February 26	31.23	57.0
1898	46.0	101	July 24, August 23	—35	December 31	32.29	61.5
1899	44.9	100	July 24, August 19-20	—49	February 7	28.99	48.8
1900	46.0	100	August 4 5	—38	February 25-26	32.31	59.8
1901	44.6	108	July 15	—28	January 3, December 21	28.06	60.6
Normal	45.2	102	July 23	—34	February 4	30.58	56.5
1902	45.2	98	July 7 and 24	—31	January 28	32.53	36.0

Table 59.—Relative humidity, wind movement and atmospheric pressure in Michigan during the year 1902.

Year and months, 1902.	Mean relative humidity (per cent).	With movement (in miles).			Atmospheric pressure reduced to 32° and sea level.					
		Average total movement.	Average hourly velocity.	Highest velocity with direction from and date.	Mean.	Highest.	Date.	Lowest.	Date.	Absolute range.
Year 1902	78	7,562	10.4	55 s w Apr. 26	29.99	30.92	Jan. 28	28.70	Feb. 28	2.22
January	83	8,303	11.2	47 n w 2	30.09	30.92	28	29.54	17	1.38
February	84	6,852	10.2	44 w 4	29.96	30.55	14	28.70	28	1.85
March	77	8,251	11.1	48 w 16-30	29.98	30.51	18	28.89	1	1.62
April	72	8,408	11.7	55 s w 26	29.93	30.39	14	29.06	26	1.33
May	72	7,312	9.8	49 n w 8	30.03	30.51	9	29.53	6	.98
June	75	7,214	10.0	48 n w 12	29.90	30.32	5	29.34	25	.78
July	77	6,064	8.2	40 s w 27	29.96	30.27	11	29.62	17	.65
August	75	6,087	8.2	53 w 31	30.00	30.26	12, 1, 29	29.43	31	.83
September	80	7,067	9.8	39 s w 8	29.97	30.46	19	29.46	8	1.00
October	77	8,114	10.9	43 w 24	30.02	30.53	31	29.22	13	1.33
November	79	8,076	11.2	47 n w 22	30.00	30.43	10	29.39	23	1.04
December	82	8,992	12.1	40 n w 13	30.07	30.68	14	29.39	2	1.29

Table 60.—Temperature, precipitation, sky and direction of wind in Michigan for the State and geographical sections, 1902.

Year and months by geographical sections.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.					Sky.			Prevailing direction of wind.
	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Number of days with precipitation.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	
Year, 1902—STATE	45.2	+0.6	98	July 7, 24	−31	Jan. 28	52	32.53	+2.97	4.80	36.0	102	133	102	130	s w
January	21.4	−0.1	54	25	−31	28	53	0.78	−1.57	0.96	8.0	6	8	9	14	s w
February	19.8	+0.6	58	26	−26	19	58	1.06	−0.90	1.55	7.4	6	11	7	10	n w
March	36.3	+9.0	74	30	−7	4,5,18	48	2.54	+0.40	2.75	3.0	8	13	6	12	n w
April	43.3	−0.5	87	22	9	7,29	56	1.67	−0.50	2.85	1.4	7	12	8	10	n w
May	55.4	+1.0	92	18,19,22	14	8	60	3.25	+0.83	3.50	0.7	9	13	11	7	s w
June	59.8	−4.6	94	15	25	5	50	5.12	+2.28	4.80	T	13	10	10	10	n w
July	69.4	+0.3	98	7,24	23	16	51	5.24	+2.48	4.18	0	11	14	10	7	w
August	64.2	−2.1	95	3	29	29	51	1.53	−1.13	2.65	0	5	16	10	5	n w
September	58.0	−2.2	90	1,4	19	14	48	3.96	+1.36	3.08	0	10	10	8	12	s w
October	48.3	−0.9	84	23	10	9	54	2.46	−0.34	2.91	0.1	8	12	8	11	s w
November	42.7	+7.7	76	11	4	30	55	2.64	−0.10	2.66	1.9	9	8	8	14	s w
December	24.1	−1.5	59	4	−15	12	42	2.28	+0.16	2.00	13.5	10	6	7	18	s w
Year, 1902—I. Upper Penin'la.	41.6	+1.2	92	July 12	−31	Jan. 28	49	26.67	−4.33	2.54	53.7	102	147	90	128	n w
January	17.8	+1.8	45	8	−31	28	53	1.46	−0.51	0.96	15.4	10	9	8	14	s w
February	18.6	+6.0	55	21	−26	19	58	1.42	−0.20	1.55	9.6	6	13	6	9	n w
March	32.3	+11.8	65	27	−7	4,5	48	0.96	−0.95	0.83	3.9	6	15	5	11	n w
April	38.7	+0.1	78	28	9	7,29	46	2.27	+0.16	1.90	3.0	9	13	7	10	n w
May	50.3	+1.3	90	19,22,24	14	8	55	2.34	−0.44	1.26	T	8	15	7	9	n w
June	57.4	−4.9	86	15	25	5	49	3.31	−0.37	2.05	T	10	13	10	7	n w
July	65.6	+1.3	92	12	23	16	51	2.93	−0.54	2.54	0	9	16	9	6	s
August	61.2	−2.9	88	1	29	29	51	1.90	−1.09	1.40	0	7	17	9	5	w, n w
September	53.9	−3.1	87	7	19	14	46	2.25	−1.27	1.72	0	9	10	9	11	w
October	44.3	−2.4	76	4	10	9	48	2.31	−0.57	1.69	0.2	9	11	7	13	n w
November	36.6	+5.9	69	2	4	30	43	3.29	+1.03	1.51	1.5	9	7	7	16	s, s w
December	20.7	−0.5	45	1,18	−15	12	36	2.23	+0.38	2.00	20.1	10	8	6	17	n w
Year, 1902—II. Northern Co.'s.	44.2	+1.0	98	July 7, 24	−26	Jan. 28	48	29.08	−1.52	4.80	36.3	90	129	102	134	n w
January	20.9	+0.8	50	24	−26	28	48	0.86	−1.63	0.70	8.8	7	8	8	15	n w
February	19.5	+2.0	52	25,27	−21	14	51	1.12	−0.52	1.25	7.8	6	12	6	10	n w
March	35.1	+9.7	70	27	−7	18	43	2.38	+0.16	1.88	4.1	7	14	5	12	n w
April	42.3	+0.1	83	22	12	7,15	53	1.85	−0.24	2.32	2.0	6	12	8	10	n w
May	53.2	+0.5	90	19	21	1,10,11,28	53	3.64	+0.74	3.50	T	9	11	11	9	n w
June	58.5	−4.8	92	13	30	5,6	43	3.79	+1.03	4.80	0	10	11	10	9	n w
July	68.6	+1.0	98	7,24	36	1,2	50	4.54	+1.46	3.27	0	9	15	10	6	s w
August	62.9	−2.9	90	1,3	32	16	48	1.74	−1.17	2.65	0	5	15	11	5	n w
September	57.4	−1.3	88	1	21	7	48	2.19	−0.77	1.75	0	8	8	9	13	s w
October	46.2	−2.2	73	8,24	13	17	54	2.39	−0.55	1.93	0.1	7	12	9	10	n w
November	42.3	+7.8	73	2	11	28	41	2.73	+0.33	2.00	1.0	7	6	9	15	s w
December	23.4	+1.1	51	21	−12	14	38	1.85	−0.36	1.05	12.5	9	5	6	20	s w

Table 60.—Concluded.—Temperature, precipitation, sky and direction of wind in Michigan for the State and geographical sections, 1902.

Year and months by geographical sections.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.					Sky.			Prevailing direction of wind.
	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted.)	Number of days with precipitation.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	
Year, 1902—III. CENTRAL CO.'S...	46.5	+0.3	92	*	−17	Jan. 28	46	36.80	+7.32	2.95	23.9	96	120	118	127	s w
January.....	22.4	−0 6	54	25	−17	28	37	0.42	−1.95	0.40	4.1	4	6	10	15	s w
February.....	19.9	+0.5	55	28	−12	14	48	0.91	−0.87	1.00	5.9	5	10	8	10	s w
March	37.6	+8.9	72	12	1	18	46	4.21	+1.84	2.70	2.2	9	11	8	12	n e, s w
April.....	44.4	−1.2	85	22	19	4,7,15	53	1.25	−0.73	1.20	0.3	5	11	9	10	s w
May.....	57.0	+0.2	92	22	20	11	60	4.17	+1.08	2.51	0.4	8	12	12	7	s w
June.....	61.6	−4.9	92	11,14	30	28	50	5.37	+3.04	2.95	0	12	7	12	11	n w, s w
July.....	70.6	−0.3	92	4,5,6,8,12	40	2	40	6.43	+3.21	2.50	0	12	13	11	7	s w
August.....	64.6	−4.3	89	1	38	9,12,23	45	1.96	−0.67	1.90	0	4	15	12	4	s w
September.....	59.9	−1.3	87	1	30	14	42	3.95	+1.24	2.23	0	11	10	8	12	s w
October.....	49.7	−0.4	84	23	20	17	47	3.46	+0.64	2.28	T	7	11	10	10	s w
November.....	45.0	+8.2	76	11	12	27	47	2.35	−0.08	1.33	1.1	9	9	8	13	s w
December.....	25.6	−1.3	53	16	−7	9	42	2.32	+0.57	1.80	9.9	10	5	10	16	s w
Year, 1902—IV. SOUTHERN CO.'S..	47.6	+0.1	97	July 6	−13	Feb. 5	44	37.70	+60.0	4.18	30.2	112	134	105	126	s w
January.....	23.2	−0.8	52	8	−11	3	38	0.53	−1.70	0.50	5.3	5	8	10	13	s w
February.....	20.5	−1.8	58	26	−13	5	43	0.88	−1.35	1.30	6.6	6	11	7	10	n w
March.....	38.7	+7.6	74	30	3	17	4	2.96	+0.48	2.75	2.0	10	12	7	12	s w
April.....	45.8	−0.8	87	22	19	1	56	1.42	−0.74	2.85	0.6	7	12	8	10	n w
May.....	58.8	+1.4	92	18,19	27	11	45	4.65	+1.12	2.20	1.4	10	13	12	6	s w
June.....	63.1	−4.3	94	15	34	22	41	6.78	+3.50	2.50	0	16	8	12	10	s w
July.....	71.7	−0.2	97	6	37	1	46	6.51	+3.74	4.18	0	13	13	11	7	s w
August.....	66.3	−3.2	95	3	40	12,22,23	42	1.09	−1.29	2.00	0	5	17	9	5	n w
September.....	60.3	−2.5	90	1,4	30	5	47	5.69	+3.09	3.08	0	12	10	8	12	s w
October.....	51.2	0.0	81	24	22	17,29	41	2.26	−0.45	2.91	T	7	14	7	10	s w
November.....	45.2	+7.9	75	2	12	13,28	55	2.36	−0.65	2.66	3.0	9	10	7	13	s w
December.....	25.8	−2.1	59	4	−6	14	33	2.57	+0.25	1.25	11.3	12	6	7	18	s w

* May 22, June 11, 14; July 4, 5, 6, 8, 12.

TABLES

RELATING TO

DEATHS

AND

CAUSES OF DEATH

IN

MICHIGAN

DURING THE

YEAR 1902.

PRIMARY TABLES RELATING TO DEATHS AND CAUSES OF DEATH IN MICHIGAN DURING THE YEAR 1902.

TABLE I.—Deaths in Michigan, by months, counties and sex, during the year 1902. (Stillbirths excluded.)

TABLE II.—Deaths in Michigan, by ages, counties and sex, during the year 1902. (Stillbirths excluded.)

TABLE III.—Causes of death in Michigan, by months, ages and sex, during the year 1902. (Stillbirths excluded.)

TABLE IV.—Causes of death in Michigan, by counties, during the year 1902. (Stillbirths excluded.)

TABLE V.—Deaths in Michigan cities, by months and sex, during the year 1902. (Stillbirths excluded.)

TABLE VI.—Deaths in Michigan cities, by ages and sex, during the year 1902. (Stillbirths excluded.)

NOTE.—*Secondary tables*, containing death rates and other ratios, and *comparative tables*, displaying the mortality of Michigan for the year 1902 in connection with previous years and other States and countries, may be found on preceding pages of this Report, together with the descriptive text.

Table I.—Deaths in Michigan by months, counties and sex, during the year 1902. (Still-births excluded.)

State and counties.	Sex.	Year 1902.	Months, 1902.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
STATE.....	Totals.	31,472	2,863	2,695	2,982	2,894	2,735	2,244	2,500	2,506	2,584	2,389	2,381	2,699
	Males..	17,040	1,543	1,376	1,621	1,573	1,444	1,244	1,380	1,381	1,377	1,301	1,341	1,459
	Fem...	14,432	1,320	1,319	1,361	1,321	1,291	1,000	1,120	1,125	1,207	1,088	1,040	1,240
Alcona.....	Totals.	45	6	6	3	6	3	2	2	3	4	4	5	1
	Males..	23	4	2	3	1	3	.....	.....	2	3	3	2	.....
	Fem...	22	2	4	.....	5	.....	2	2	1	1	1	3	1
Alger.....	Totals.	74	5	4	6	7	7	4	8	8	5	5	5	10
	Males..	44	3	.....	4	5	4	3	7	4	2	2	1	9
	Fem...	30	2	4	2	2	3	1	1	4	3	3	4	1
Allegan.....	Totals.	475	50	45	43	48	35	27	38	39	31	45	37	37
	Males..	255	27	19	24	27	18	17	25	18	15	25	25	15
	Fem...	220	23	26	19	21	17	10	13	21	16	20	12	22
Alpena.....	Totals.	171	17	16	13	13	10	8	18	10	10	17	20	19
	Males..	91	12	7	9	6	8	4	6	3	5	11	11	9
	Fem...	80	5	9	4	7	2	4	12	7	5	6	9	10
Antrim.....	Totals.	168	13	14	15	12	12	13	15	16	16	17	10	15
	Males..	92	6	5	9	8	9	7	9	9	7	9	6	8
	Fem...	76	7	9	6	4	3	6	6	7	9	8	4	7
Arenac.....	Totals.	80	12	6	3	5	7	4	5	9	3	7	6	13
	Males..	45	8	6	.....	2	4	3	2	3	1	3	4	9
	Fem...	35	4	.....	3	3	3	1	3	6	2	4	2	4
Baraga.....	Totals.	40	4	3	4	4	1	2	2	8	3	2	2	5
	Males..	21	2	1	2	2	.....	2	.....	3	3	2	2	2
	Fem...	19	2	2	2	2	1	.....	2	5	.....	.....	.....	3
Barry.....	Totals.	267	21	29	32	30	24	23	17	21	18	19	11	22
	Males..	144	16	13	20	20	12	13	9	5	7	12	6	11
	Fem...	123	5	16	12	10	12	10	8	16	11	7	5	11
Bay.....	Totals.	745	72	71	77	71	52	41	50	70	62	54	52	73
	Males..	401	39	34	43	43	21	23	32	40	35	31	28	32
	Fem...	344	33	37	34	28	31	18	18	30	27	23	24	41
Benzie.....	Totals.	108	12	6	12	17	7	6	8	10	8	3	7	12
	Males..	61	6	5	8	10	2	5	4	5	4	2	3	7
	Fem...	47	6	1	4	7	5	1	4	5	4	1	4	5
Berrien.....	Totals.	553	63	40	55	47	51	45	40	46	42	36	39	49
	Males..	311	38	25	23	29	27	31	20	25	25	18	24	26
	Fem...	242	25	15	32	18	24	14	20	21	17	18	15	23
Branch.....	Totals.	381	35	33	49	40	37	21	25	33	33	21	29	25
	Males..	200	17	18	20	19	17	11	18	20	17	12	14	17
	Fem...	181	18	15	29	21	20	10	7	13	16	9	15	8
Calhoun.....	Totals.	763	61	57	74	72	70	49	64	54	69	60	61	72
	Males..	418	30	31	45	34	33	26	36	29	39	30	36	49
	Fem...	345	31	26	29	38	37	23	28	25	30	30	25	23
Cass.....	Totals.	287	39	28	29	30	20	17	25	15	21	24	20	19
	Males..	132	12	16	16	12	10	6	11	6	15	9	9	10
	Fem...	155	27	12	13	18	10	11	14	9	6	15	11	9
Charlevoix.....	Totals.	163	16	14	9	19	14	11	16	22	11	12	10	9
	Males..	82	7	5	5	9	11	6	8	9	5	7	3	7
	Fem...	81	9	9	4	10	3	5	8	13	6	5	7	2
Cheboygan.....	Totals.	181	22	20	24	17	12	9	10	11	17	14	12	13
	Males..	99	10	10	13	11	7	4	5	5	12	8	8	6
	Fem...	82	12	10	11	6	5	5	5	6	5	6	4	7

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Table I.—Continued.—Deaths in Michigan by months, counties and sex, 1902.

State and counties.	Sex.	Year 1902.	Months, 1902.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Chippewa.....	Totals.	339	20	20	24	30	28	27	30	32	39	36	28	25
	Males..	197	9	16	13	17	14	13	18	19	25	20	18	15
	Fem...	142	11	4	11	13	14	14	12	13	14	16	10	10
Clare.....	Totals.	83	9	3	11	8	8	6	4	9	7	7	4	7
	Males..	41	3	2	6	6	3	3	3	4	4	4	.....	3
	Fem...	42	6	1	5	2	5	3	1	5	3	3	4	4
Clinton.....	Totals.	298	28	30	28	32	22	15	19	24	32	19	23	26
	Males..	145	13	16	12	17	10	7	9	15	15	8	12	11
	Fem...	153	15	14	16	15	12	8	10	9	17	11	11	15
Crawford.....	Totals.	48	4	2	5	6	2	3	6	4	6	4	2	4
	Males..	34	3	2	3	5	1	1	4	3	4	4	2	2
	Fem...	14	1	.....	2	1	1	2	2	1	2	.....	.....	2
Delta.....	Totals.	323	25	24	31	25	23	27	23	25	37	27	27	29
	Males..	185	13	11	14	18	13	10	18	11	24	18	19	16
	Fem...	138	12	13	17	7	10	17	5	14	13	9	8	13
Dickinson.....	Totals.	227	14	15	22	15	11	12	15	33	25	24	15	26
	Males..	130	7	10	13	4	7	6	10	19	16	15	9	14
	Fem...	97	7	5	9	11	4	6	5	14	9	9	6	12
Eaton.....	Totals.	401	45	38	36	44	44	28	30	20	29	25	30	32
	Males..	222	28	21	23	17	23	20	16	14	16	13	16	15
	Fem...	179	17	17	13	27	21	8	14	6	13	12	14	17
Emmet.....	Totals.	232	22	22	20	18	20	9	12	22	22	24	21	20
	Males..	123	9	10	13	11	12	5	6	11	14	11	11	10
	Fem...	109	13	12	7	7	8	4	6	11	8	13	10	10
Genesee.....	Totals.	562	75	64	48	49	41	38	45	37	38	32	42	53
	Males..	285	41	32	29	23	15	25	21	17	19	16	20	27
	Fem...	277	34	32	19	26	26	13	24	20	19	16	22	26
Gladwin.....	Totals.	60	6	4	4	4	5	1	4	7	10	7	5	3
	Males..	38	4	4	3	3	1	1	3	3	6	5	2	3
	Fem...	22	2	.....	1	1	4	.....	1	4	4	2	3	.....
Gogebic.....	Totals.	307	27	19	35	25	39	20	22	31	25	23	16	25
	Males..	193	18	16	23	16	22	11	14	23	15	11	10	14
	Fem...	114	9	3	12	9	17	9	8	8	10	12	6	11
Gd. Traverse...	Totals.	297	22	25	25	24	37	27	26	28	24	21	19	19
	Males..	173	13	13	14	14	20	16	17	15	16	13	11	11
	Fem...	124	9	12	11	10	17	11	9	13	8	8	8	8
Gratiot.....	Totals.	355	36	31	36	30	29	30	27	33	23	28	20	32
	Males..	189	19	14	15	19	15	17	13	18	11	16	16	16
	Fem...	166	17	17	21	11	14	13	14	15	12	12	4	16
Hillsdale.....	Totals.	377	36	38	31	24	33	26	26	28	25	40	37	33
	Males..	219	23	21	21	12	20	16	15	14	13	22	25	17
	Fem...	158	13	17	10	12	13	10	11	14	12	18	12	16
Houghton.....	Totals.	943	65	67	74	70	72	45	74	111	139	85	69	72
	Males..	537	43	42	26	43	40	18	44	57	74	51	44	45
	Fem...	406	22	25	38	27	32	27	30	54	65	34	25	27
Huron.....	Totals.	336	36	28	28	22	27	26	23	24	30	27	31	34
	Males..	183	16	20	20	12	19	13	10	11	13	16	14	19
	Fem...	153	20	8	8	10	8	13	13	13	17	11	17	15
Ingham.....	Totals.	560	40	48	69	63	44	32	41	47	35	46	44	51
	Males..	282	18	24	34	34	23	15	21	26	17	24	24	22
	Fem...	278	22	24	35	29	21	17	20	21	18	22	20	29
Ionia.....	Totals.	428	44	41	56	37	38	31	33	26	23	28	35	36
	Males..	237	19	28	29	20	27	14	21	15	13	8	23	20
	Fem...	191	25	13	27	17	11	17	12	11	10	20	12	16

Table I.—Continued.—Deaths in Michigan by months, counties and sex, 1902.

State and counties.	Sex.	Year 1902.	Months, 1902.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Iosco	Totals.	99	14	8	7	10	5	7	6	6	6	10	8	12
	Males.	56	5	4	5	5	3	5	3	3	3	6	6	8
	Fem.	43	9	4	2	5	2	2	3	3	3	4	2	4
Iron	Totals.	84	3	4	3	8	7	8	12	8	6	10	8	7
	Males.	59	3	2	3	6	3	5	12	6	4	4	5	6
	Fem.	25	.....	2	.....	2	4	3	.....	2	2	6	3	1
Isabella	Totals.	265	23	24	24	29	24	20	22	20	17	26	16	20
	Males.	139	18	14	11	13	12	13	13	12	7	10	6	10
	Fem.	126	5	10	13	16	12	7	9	8	10	16	10	10
Jackson	Totals.	642	54	51	66	60	55	41	48	53	51	54	61	48
	Males.	332	34	19	32	31	26	23	26	21	25	32	38	25
	Fem.	310	20	32	34	29	29	18	22	32	26	22	23	23
Kalamazoo	Totals.	638	60	48	59	59	61	49	48	55	46	44	47	62
	Males.	352	30	26	35	29	36	27	25	27	23	23	33	38
	Fem.	286	30	22	24	30	25	22	23	28	23	21	14	24
Kalkaska	Totals.	77	5	5	3	4	8	4	6	4	4	13	13	8
	Males.	49	3	3	.....	3	6	2	3	3	1	10	10	5
	Fem.	28	2	2	3	1	2	2	3	1	3	3	3	3
Kent	Totals.	1,734	166	168	143	167	132	136	129	138	138	152	131	134
	Males.	954	92	86	75	90	77	78	66	88	63	80	74	85
	Fem.	780	74	82	68	77	55	58	63	50	75	72	57	49
Keweenaw	Totals.	34	1	5	2	2	2	1	1	7	4	4	4	1
	Males.	21	1	3	1	1	1	1	.....	4	3	3	2	1
	Fem.	13	.....	2	1	1	1	.....	1	3	1	1	2	.....
Lake	Totals.	46	4	5	6	4	4	7	3	1	5	5	.....	2
	Males.	27	1	2	5	4	2	4	1	.....	3	3	.....	2
	Fem.	19	3	3	1	.....	2	3	2	1	2	2	.....	.....
Lapeer	Totals.	376	33	37	35	37	38	27	27	20	27	34	28	33
	Males.	204	23	17	18	29	16	17	15	17	12	15	13	12
	Fem.	172	10	20	17	8	22	10	12	3	15	19	15	21
Leelanau	Totals.	117	14	9	11	13	7	6	7	9	10	8	14	9
	Males.	56	7	3	1	6	3	2	6	5	8	3	7	5
	Fem.	61	7	6	10	7	4	4	1	4	2	5	7	4
Lenawee	Totals.	642	61	52	58	48	63	49	41	48	67	39	46	70
	Males.	311	27	19	23	24	35	23	19	29	35	17	28	32
	Fem.	331	34	33	35	24	28	26	22	19	32	22	18	38
Livingston	Totals.	225	18	23	28	13	23	19	27	16	18	15	16	9
	Males.	115	10	11	14	5	12	6	15	10	10	8	8	6
	Fem.	110	8	12	14	8	11	13	12	6	8	7	8	3
Luce	Totals.	64	4	2	3	10	4	3	5	4	8	7	4	10
	Males.	52	4	1	3	9	1	3	3	3	5	6	4	10
	Fem.	12	.....	1	.....	1	3	.....	2	1	3	1	.....	.....
Mackinac	Totals.	83	4	9	8	4	2	7	10	11	7	7	8	6
	Males.	51	2	8	4	2	1	5	7	6	3	6	4	3
	Fem.	32	2	1	4	2	1	2	3	5	4	1	4	3
Macomb	Totals.	468	48	32	48	28	50	41	33	35	33	36	34	50
	Males.	249	32	14	24	17	25	19	18	22	17	17	15	29
	Fem.	219	16	18	24	11	25	22	15	13	16	19	19	21
Manistee	Totals.	311	18	25	32	20	27	20	30	21	33	26	29	30
	Males.	165	10	14	16	12	17	11	19	14	17	8	13	14
	Fem.	146	8	11	16	8	10	9	11	7	16	18	16	16
Marquette	Totals.	512	42	32	50	43	47	41	33	42	55	43	44	40
	Males.	286	26	18	33	25	22	24	16	23	26	23	26	24
	Fem.	226	16	14	17	18	25	17	17	19	29	20	18	16

Table I.—Continued.—Deaths in Michigan by months, counties and sex, 1902.

State and counties.	Sex.	Year 1902.	Months, 1902.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Mason	Totals.	184	18	13	15	16	21	13	10	18	16	13	17	14
	Males.	97	9	9	8	8	11	6	5	12	8	8	9	4
	Fem.	87	9	4	7	8	10	7	5	6	8	5	8	10
Mecosta	Totals.	225	14	21	18	22	22	19	19	12	16	22	16	24
	Males.	130	8	15	10	16	14	12	8	6	9	15	9	8
	Fem.	95	6	6	8	6	8	7	11	6	7	7	7	16
Menominee	Totals.	268	23	21	17	25	25	25	19	18	23	21	30	21
	Males.	158	14	13	8	14	14	19	10	12	17	8	19	10
	Fem.	110	9	8	9	11	11	6	9	6	6	13	11	11
Midland	Totals.	147	16	14	14	15	10	15	14	13	8	10	8	10
	Males.	82	8	9	6	8	4	11	7	8	6	5	5	5
	Fem.	65	8	5	8	7	6	4	7	5	2	5	3	5
Missaukee	Totals.	85	3	8	8	12	7	8	6	5	8	8	5	7
	Males.	45	1	3	3	8	5	4	4	3	5	3	4	2
	Fem.	40	2	5	5	4	2	4	2	2	3	5	1	5
Monroe	Totals.	369	44	36	32	27	35	23	28	39	29	26	25	25
	Males.	184	22	20	15	17	15	12	14	17	17	11	11	13
	Fem.	185	22	16	17	10	20	11	14	22	12	15	14	12
Montcalm	Totals.	377	39	37	33	34	21	30	19	27	39	31	32	35
	Males.	180	17	17	19	13	11	13	8	16	14	18	17	17
	Fem.	197	22	20	14	21	10	17	11	11	25	13	15	18
Montmorency	Totals.	44	.....	5	6	9	4	1	2	2	4	7	3	1
	Males.	27	.....	3	3	4	3	1	1	1	2	6	2	1
	Fem.	17	.....	2	3	5	1	.....	1	1	2	1	1	.....
Muskegon	Totals.	415	36	37	39	35	38	27	49	25	40	28	26	35
	Males.	230	15	15	24	17	19	20	32	14	22	17	12	23
	Fem.	185	21	22	15	18	19	7	17	11	18	11	14	12
Newaygo	Totals.	203	24	20	13	23	15	12	18	13	15	14	20	16
	Males.	117	14	13	7	14	9	6	12	8	9	6	10	9
	Fem.	86	10	7	6	9	6	6	6	5	6	8	10	7
Oakland	Totals.	580	45	42	51	49	60	54	55	49	41	44	35	55
	Males.	335	27	19	31	27	32	31	36	30	19	30	17	36
	Fem.	245	18	23	20	22	28	23	19	19	22	14	18	19
Oceana	Totals.	161	19	15	13	16	12	12	18	13	8	15	12	8
	Males.	84	10	4	9	9	4	8	7	10	5	7	9	2
	Fem.	77	9	11	4	7	8	4	11	3	3	8	3	6
Ogemaw	Totals.	80	4	10	15	5	16	2	4	1	7	8	4	4
	Males.	47	2	6	10	1	9	1	3	.....	4	6	3	2
	Fem.	33	2	4	5	4	7	1	1	1	3	2	1	2
Ontonagon	Totals.	93	4	4	6	8	7	7	8	5	10	5	13	16
	Males.	63	2	3	4	4	4	6	8	4	3	3	10	12
	Fem.	30	2	1	2	4	3	1	.....	1	7	2	3	4
Osceola	Totals.	207	19	21	20	23	12	7	15	16	20	15	22	17
	Males.	113	13	9	12	12	6	2	9	9	10	11	13	7
	Fem.	94	6	12	8	11	6	5	6	7	10	4	9	10
Oscoda	Totals.	10	1	.....	1	2	4	2	.....	.....	.....	.....	.....	.....
	Males.	6	.....	.....	.....	1	4	1	.....	.....	.....	.....	.....	.....
	Fem.	4	1	.....	1	1	.....	1	.....	.....	.....	.....	.....	.....
Otsego	Totals.	75	3	6	7	7	5	4	5	5	10	2	8	13
	Males.	42	1	4	5	5	1	3	4	2	6	1	5	5
	Fem.	33	2	2	2	2	4	1	1	3	4	1	3	8
Ottawa	Totals.	419	42	33	40	49	46	34	41	22	34	22	28	28
	Males.	216	18	14	27	29	23	18	23	8	13	13	16	14
	Fem.	203	24	19	13	20	23	16	18	14	21	9	12	14

Table I.—Concluded.—Deaths in Michigan by months, counties and sex, 1902.

State and counties.	Sex.	Year 1902.	Months, 1902.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Presque Isle...	Totals.	92	6	5	9	8	8	13	3	6	6	10	12	6
	Males..	48	3	2	4	4	3	8	.....	2	4	4	11	3
	Fem...	44	3	3	5	4	5	5	3	4	2	6	1	3
Roscommon...	Totals.	8	.....	1	2	.....	.....	.....	.....	1	.....	2	.....	2
	Males..	6	.....	.....	2	.....	.....	.....	.....	1	.....	1	.....	2
	Fem...	2	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
Saginaw.....	Totals.	995	88	88	98	96	88	73	80	60	95	64	77	88
	Males..	511	38	34	57	59	56	34	37	35	44	32	35	50
	Fem...	484	50	54	41	37	32	39	43	25	51	32	42	38
St. Clair.....	Totals.	728	54	66	88	93	64	55	57	38	61	48	47	57
	Males..	410	33	33	42	53	36	36	31	18	35	27	30	36
	Fem...	318	21	33	46	40	28	19	26	20	26	21	17	21
St. Joseph.....	Totals.	302	38	32	29	27	26	23	24	18	22	16	21	26
	Males..	162	18	23	15	12	15	9	12	10	13	9	14	12
	Fem...	140	20	9	14	15	11	14	12	8	9	7	7	14
Sanilac.....	Totals.	376	38	28	35	31	35	36	22	25	23	32	36	35
	Males..	213	25	15	22	18	17	19	13	17	11	19	21	16
	Fem...	163	13	13	13	13	18	17	9	8	12	13	15	19
Schoolcraft....	Totals.	96	9	7	7	8	9	2	8	8	9	8	11	10
	Males..	55	5	5	3	3	3	1	4	6	8	5	6	6
	Fem...	41	4	2	4	5	6	1	4	2	1	3	5	4
Shiawassee.....	Totals.	413	41	42	40	41	38	28	24	40	28	23	35	33
	Males..	220	24	15	21	17	23	19	14	22	19	12	19	15
	Fem...	193	17	27	19	24	15	9	10	18	9	11	16	18
Tuscola.....	Totals.	417	44	47	46	29	23	35	31	27	32	33	28	42
	Males..	221	25	22	16	14	13	24	19	16	19	16	16	21
	Fem...	196	19	25	30	15	10	11	12	11	13	17	12	21
Van Buren.....	Totals.	364	26	39	38	37	30	28	32	14	29	29	31	31
	Males..	189	18	14	22	21	16	12	15	7	17	20	14	13
	Fem...	175	8	25	16	16	14	16	17	7	12	9	17	18
Washtenaw....	Totals.	660	79	63	64	46	60	36	38	39	67	59	44	65
	Males..	337	39	28	31	22	33	20	21	23	34	31	23	32
	Fem...	323	40	35	33	24	27	16	17	16	33	28	21	33
Wayne.....	Totals.	5,778	492	468	536	568	533	432	543	517	412	384	407	486
	Males..	3,078	259	241	301	297	263	236	292	283	219	214	214	259
	Fem...	2,700	233	227	235	271	270	196	251	234	193	170	193	227
Wexford.....	Totals.	207	20	16	25	10	17	17	17	16	15	14	23	17
	Males..	124	11	5	16	6	9	12	9	7	10	10	17	12
	Fem...	83	9	11	9	4	8	5	8	9	5	4	6	5

Table II.—Deaths in Michigan by ages, counties and

State and counties.	Sex.	Total deaths at all ages, 1902.	Ages in years.				
			Under 1 year.	1.	2.	3.	4.
STATE	Totals	31,472	5,949	1,108	506	345	254
	Males	17,040	3,377	587	271	188	139
	Females	14,432	2,572	521	235	157	115
Alcona	Totals	45	5	.....	1	1	.....
	Males	23	1	.....	.....	.....	.....
	Females	22	4	.....	1	1	.....
Alger	Totals	74	18	5	2	1	3
	Males	44	9	3	1	.....	.....
	Females	30	9	2	1	1	3
Allegan	Totals	475	53	11	5	3	.....
	Males	255	36	7	3	.....	.....
	Females	220	17	4	2	3	.....
Alpena	Totals	171	47	6	5	5	1
	Males	91	28	3	4	2	.....
	Females	80	19	6	1	3	1
Antrim	Totals	168	50	15	2	4	2
	Males	92	34	8	1	1	.....
	Females	76	16	7	1	3	2
Arenac	Totals	80	19	2	1	.....	1
	Males	45	11	1	.....	.....	1
	Females	35	8	1	1	.....	.....
Baraga	Totals	40	14	3	.....	2	.....
	Males	21	8	2	.....	.....	.....
	Females	19	6	1	.....	2	.....
Barry	Totals	267	34	4	3	4	.....
	Males	144	21	2	1	1	.....
	Females	123	13	2	2	3	.....
Bay	Totals	745	183	15	5	10	5
	Males	401	111	6	5	3	1
	Females	344	72	9	.....	7	4
Benzie	Totals	108	32	8	.....	.....	1
	Males	61	20	4	.....	.....	.....
	Females	47	12	4	.....	.....	1
Berrien	Totals	553	90	11	5	6	2
	Males	311	49	6	3	5	1
	Females	242	41	5	2	1	1
Branch	Totals	381	40	11	5	3	2
	Males	200	22	6	4	.....	1
	Females	181	18	5	1	3	1
Calhoun	Totals	763	96	14	6	5	7
	Males	418	57	10	1	3	4
	Females	345	39	4	5	2	3
Cass	Totals	287	28	5	4	1	1
	Males	132	16	3	1	1	1
	Females	155	12	2	3	.....	.....
Charlevoix	Totals	163	32	4	3	.....	1
	Males	82	24	2	1	.....	1
	Females	81	8	2	2	.....	.....
Cheboygan	Totals	181	54	6	2	1	2
	Males	99	32	5	1	1	2
	Females	82	22	1	1	.....	.....

sex during the year 1902. (Stillbirths excluded.)

Ages in five-year periods.

Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 and over.	Unknown.
8,162	884	598	1,011	1,289	1,194	1,051	1,147	1,204	1,174	1,280	1,436	1,741	2,123	2,204	2,090	2,784	100
4,562	478	299	493	617	586	503	574	651	665	754	816	927	1,177	1,212	1,149	1,502	75
3,600	406	299	518	672	608	548	573	553	509	526	620	814	946	992	941	1,282	25
7	2	1	5	2	4	1	1	1	1	1	.....	4	5	3	4	3	...
1	1	1	2	2	2	.....	.....	1	1	1	.....	2	4	1	3	1	...
6	1	....	3	.....	2	1	1	.....	.....	.....	.....	2	1	2	1	2	...
29	3	3	1	5	9	4	4	4	5	.....	3	2	1	1	.....	.....	...
13	2	2	1	2	6	2	3	3	5	.....	2	1	1	1	.....	.....	...
16	1	1	.....	3	3	2	1	1	.....	.....	1	1	.....	.....	.....	.....	...
72	4	7	5	19	12	12	12	15	16	27	25	23	42	48	61	75	...
46	2	1	2	5	5	6	2	9	13	14	11	15	21	19	42	42	...
26	2	6	3	14	7	6	10	6	3	13	14	8	21	29	19	33	...
67	9	6	10	10	6	6	8	5	3	4	6	4	6	7	4	9	1
37	6	3	6	7	4	1	5	3	.....	1	3	2	3	4	1	5	...
30	3	3	4	3	2	5	3	2	3	3	3	2	3	3	3	4	1
73	2	2	4	7	11	6	13	7	3	6	4	5	8	11	2	4	...
44	1	1	2	2	5	4	4	5	2	2	2	2	6	4	2	4	...
29	1	1	2	5	6	2	9	2	1	4	2	3	2	7	.....	.....	...
23	3	2	2	4	2	1	2	2	8	5	2	3	5	5	4	5	2
13	1	1	2	2	.....	1	1	1	5	2	1	1	3	5	4	1	1
10	2	1	.....	2	2	.....	1	1	3	3	1	2	2	.....	.....	4	1
19	2	....	.....	2	1	1	3	3	.....	1	.....	2	1	.....	2	3	...
10	....	....	.....	1	1	.....	1	1	.....	1	.....	2	1	.....	2	1	...
9	2	....	.....	1	.....	1	2	2	.....	.....	.....	.....	.....	.....	.....	2	...
45	2	3	6	6	5	8	7	5	9	10	11	17	28	36	27	41	1
25	2	1	2	3	3	4	1	3	2	3	6	8	17	25	15	23	1
20	....	2	4	3	2	4	6	2	7	7	5	9	11	11	12	18	...
218	25	13	30	31	23	26	20	34	27	31	47	41	40	45	36	54	4
126	16	6	13	12	11	8	13	14	15	19	24	24	29	26	12	32	1
92	9	7	17	19	12	18	7	20	12	12	23	17	11	19	24	22	3
41	4	1	4	5	4	5	4	3	2	3	3	5	5	4	3	9	3
24	....	1	2	5	3	2	1	2	2	2	2	1	4	2	1	4	3
17	4	....	2	.....	1	3	3	1	.....	1	1	4	1	2	2	5	...
114	13	8	17	22	16	29	16	15	17	23	28	36	43	51	38	65	2
64	7	3	8	11	8	16	5	8	11	16	16	22	25	29	19	41	2
50	6	5	9	11	8	13	11	7	6	7	12	14	18	22	19	24	...
61	8	5	9	3	14	6	5	9	8	15	10	38	43	48	46	53	...
33	4	2	5	1	4	3	3	4	4	7	5	14	27	29	22	33	...
28	4	3	4	2	10	3	2	5	4	8	5	24	16	19	24	20	...
128	23	13	21	29	16	25	16	39	31	24	44	64	43	69	77	100	1
75	15	8	11	15	9	12	6	23	15	14	22	31	23	34	43	61	1
53	8	5	10	14	7	13	10	16	16	10	22	33	20	35	34	39	...
39	4	2	15	10	4	5	9	13	6	17	15	15	33	30	27	42	1
22	1	2	6	5	1	1	2	2	.....	11	8	5	18	17	14	16	1
17	3	....	9	5	3	4	7	11	6	6	7	10	15	13	13	26	...
40	5	3	3	7	5	9	9	8	6	7	6	14	8	10	8	13	2
28	1	....	1	3	.....	4	2	3	2	3	3	7	4	3	6	10	2
12	4	3	2	4	5	5	7	5	4	4	3	7	4	7	2	3	...
65	8	3	4	13	1	5	8	9	5	5	4	6	5	6	19	15	...
41	5	1	3	4	1	.....	5	5	2	2	2	3	2	3	12	8	...
24	3	2	1	9	.....	5	3	4	3	3	2	3	3	3	7	7	...

Table II.—Continued.—Deaths in Michigan by ages,

State and counties.	Sex.	Total deaths at all ages, 1902.	Ages in years.				
			Under 1 year.	1.	2.	3.	4.
Chippewa	Totals	339	111	14	10	5	1
	Males	197	62	7	7	4	1
	Females	142	49	7	3	1	...
Clare	Totals	83	23	1	.....	1	1
	Males	41	13	1	.....	...	..
	Females	42	10	.....	.....	1	1
Clinton	Totals	298	41	7	1	1	2
	Males	145	21	4	1	1	2
	Females	153	20	3	.....	.....	...
Crawford	Totals	48	12	3	.....	.....	1
	Males	34	9	3	.....	.....	1
	Females	14	3	.....	.....	.....	...
Delta	Totals	323	106	22	5	3	...
	Males	185	55	10	1	2	...
	Females	138	51	12	4	1	...
Dickinson	Totals	227	91	11	6	5	2
	Males	130	54	4	1	4	1
	Females	97	37	7	5	1	1
Eaton	Totals	401	33	10	6	3	6
	Males	222	18	7	2	2	2
	Females	179	15	3	4	1	4
Emmet	Totals	232	58	12	1	1	1
	Males	123	27	6	.....	1	...
	Females	109	31	6	1	.....	1
Genesee	Totals	562	70	13	4	3	3
	Males	285	34	6	2	1	1
	Females	277	36	7	2	2	2
Gladwin	Totals	60	16	2	4	.....	1
	Males	38	9	2	2	.....	1
	Females	22	7	.....	2	.....	...
Gogebic	Totals	307	108	26	6	8	8
	Males	193	62	16	4	4	4
	Females	114	46	10	2	4	4
Grand Traverse	Totals	297	48	8	5	5	4
	Males	173	27	4	2	2	3
	Females	124	21	4	3	3	1
Gratiot	Totals	355	50	16	7	2	2
	Males	189	30	11	4	2	...
	Females	166	20	5	3	.....	2
Hillsdale	Totals	377	28	6	5	6	1
	Males	219	19	5	4	4	1
	Females	158	9	1	1	2	.....
Houghton	Totals	943	336	44	32	12	12
	Males	537	171	22	20	8	5
	Females	406	165	22	12	4	7
Huron	Totals	336	84	14	11	7	.....
	Males	183	44	10	3	2	.....
	Females	153	40	4	8	5	.....
Ingham	Totals	560	80	16	4	6	1
	Males	282	43	8	2	3	1
	Females	278	37	8	2	3	.....
Ionia	Totals	428	46	12	3	2	2
	Males	237	24	7	2	2	2
	Females	191	22	5	1	.....	.....

s and sex, during the year 1902. (Stillbirths excluded.)

Ages in five-year periods.

10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 and over.	Unknown.
4	10	20	20	14	18	21	14	8	10	7	9	8	8	10	1
1	5	12	14	8	11	13	9	5	7	4	4	4	3	7	...
3	5	8	6	6	7	8	5	3	3	3	5	4	5	3	1
3	3	1	2	3	2	4	2	5	5	4	2	2	5	9	...
1	.....	1	1	1	1	1	1	4	5	1	1	.....	4	5	...
2	3	.....	1	2	1	3	1	1	.....	3	1	2	1	4	...
3	8	11	9	7	7	9	7	10	14	24	29	30	30	44	...
1	3	5	5	4	3	3	1	3	7	10	16	18	16	21	...
2	5	6	4	3	4	6	6	7	7	14	13	12	14	23	...
....	4	2	1	.....	4	3	4	1	2	1	3	1	1	4	...
....	2	2	1	.....	3	2	4	1	1	1	1	.....	1	2	...
....	2	.....	.....	.....	1	1	.....	.....	1	.....	2	1	.....	2	...
7	7	21	20	14	12	11	15	8	11	16	7	8	6	8	3
4	2	13	13	6	7	9	11	8	5	10	6	4	3	5	2
3	5	8	7	8	5	2	4	.....	6	6	1	4	3	3	1
9	4	7	15	2	8	16	10	8	3	2	8	4	5	4	...
4	3	4	10	1	6	12	6	5	1	1	2	2	2	4	...
5	1	3	5	1	2	4	4	3	2	1	6	2	3	.....	...
4	12	19	21	12	13	12	11	13	24	26	47	47	29	45	1
3	8	12	11	8	5	5	7	8	12	15	23	27	16	26	1
1	4	7	10	4	8	7	4	5	12	11	24	20	13	19	...
5	9	10	14	7	9	11	10	7	10	14	19	7	8	11	2
3	3	6	8	3	4	7	8	3	3	7	14	5	3	7	1
2	6	4	6	4	5	4	2	4	7	7	5	2	5	4	1
14	14	21	20	14	29	29	15	21	36	27	48	48	44	76	2
6	8	6	10	9	16	12	9	9	18	17	21	20	29	42	1
8	6	15	10	5	13	17	6	12	18	10	27	28	15	34	1
....	2	1	3	1	8	.....	3	3	3	3	3	1	3	.....	...
....	2	1	2	.....	7	.....	1	.....	.....	3	3	.....	2	.....	...
....	.....	.....	1	1	1	.....	2	3	3	.....	.....	1	1	.....	...
7	8	16	22	8	12	16	10	11	8	5	7	4	2	2	...
3	5	13	16	5	9	8	7	11	7	3	3	4	2	.....	...
4	3	3	6	3	3	8	3	.....	1	2	4	.....	.....	2	...
4	6	11	12	10	16	10	12	18	17	12	24	25	17	18	3
3	3	4	5	7	10	7	6	12	10	8	12	17	12	11	3
1	3	7	7	3	6	3	6	6	7	4	12	8	5	7	...
5	10	10	11	15	8	13	16	13	18	20	32	31	29	38	1
3	6	2	2	10	3	3	8	4	10	8	20	18	15	24	1
2	4	8	9	5	5	10	8	9	8	12	12	13	14	14	...
4	9	11	6	7	6	8	20	20	21	26	31	42	42	69	2
1	6	8	3	3	1	5	14	9	14	16	18	21	22	38	1
3	3	3	3	4	5	3	6	11	7	10	13	21	20	31	1
11	29	46	49	46	45	32	37	25	23	25	33	20	24	22	7
7	18	27	36	26	25	22	26	22	15	14	19	15	8	6	7
4	11	19	13	20	20	10	11	3	8	11	14	5	16	16	...
10	16	17	8	8	7	10	6	11	14	13	16	17	19	40	1
4	8	10	2	6	4	7	4	9	10	4	5	7	13	24	1
6	8	7	6	2	3	3	2	2	4	9	11	10	6	16	...
8		18	19	26	8	23	23	27	24	35	42	45	69	57	1
6	7	6	8	15	5	7	16	22	12	13	23	19	30	27	...
2	6	12	11	11	3	16	7	5	12	22	19	26	39	30	1
5	10	13	10	16	15	9	18	28	25	35	42	39	37	54	1
2	4	5	4	7	11	6	8	19	11	20	22	29	20	28	1
3	6	8	6	9	4	3	10	9	14	15	20	10	17	26	...

Table II.—Continued.—Deaths in Michigan by ages.

State and counties.	Sex.	Total deaths at all ages, 1902.	Ages in years.				
			Under 1 year.	1.	2.	3.	4.
Ionia	Totals	99	25	3	.....	.....	.....
	Males	56	15	2	.....	.....	.....
	Females	43	10	1	.....	.....	.....
Iron	Totals	84	25	3	2	.....	1
	Males	59	18	2	.....	.....	.....
	Females	25	7	1	2	.....	1
Isabella	Totals	265	49	16	1	5	3
	Males	139	28	10	.....	2	.....
	Females	126	21	6	1	3	3
Jackson	Totals	642	80	18	1	4	2
	Males	332	41	9	1	3	2
	Females	310	39	9	.....	1	.....
Kalamazoo	Totals	638	69	13	6	5	3
	Males	352	46	6	3	3	1
	Females	286	23	7	3	2	2
Kalkaska	Totals	77	16	8	1	.....	1
	Males	49	12	6	1	.....	1
	Females	28	4	2	.....	.....	.....
Kent	Totals	1,734	261	49	24	12	5
	Males	954	143	25	15	5	.....
	Females	780	118	24	9	7	5
Keweenaw	Totals	34	8	5	3	.....	1
	Males	21	6	1	1	.....	1
	Females	13	2	4	2	.....	.....
Lake	Totals	46	5	.....	3	1	
	Males	27	3	.....	2	1	
	Females	19	2	.....	1	.....	.....
Lapeer	Totals	376	50	13	5	6	3
	Males	204	24	8	4	3	1
	Females	172	26	5	1	3	2
Leelanau	Totals	117	29	8	3	1	2
	Males	56	17	3	.....	.....	1
	Females	61	12	5	3	1	1
Lenawee	Totals	642	70	12	5	6	5
	Males	311	38	4	1	3	2
	Females	331	32	8	4	3	3
Livingston	Totals	225	22	2	4	2	
	Males	115	13	.....	4	2	
	Females	110	9	2	.....	.....	.....
Luce	Totals	64	4	1	1	.....	.....
	Males	52	3	.....	1	.....	.....
	Females	12	1	1	.....	.....	.....
Mackinac	Totals	83	14	4	1	1	2
	Males	51	10	2	.....	.....	2
	Females	32	4	2	1	1	.....
Macomb	Totals	475	85	18	10	6	4
	Males	245	68	9	4	3	2
	Females	230	17	9	6	3	2
Manistee	Totals	311	45	10	6	1	2
	Males	165	38	8	3	.....	1
	Females	146	45	2	3	1	1
Marquette	Totals	512	136	29	8	6	8
	Males	286	76	14	2	3	7
	Females	226	60	15	6	3	1

nd sex, during the year 1902. (Stillbirths excluded.)

Ages in five-year periods.

10 to 4.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 and over.	Unknown.
5	4	3	5	3	4	6	.....	6	3	6	5	7	3	5	...
1	2	1	1	.....	2	5	.....	3	1	5	3	4	2	5	...
4	2	2	4	3	2	1	.....	3	2	1	2	3	1	.....	...
2	9	9	4	2	5	4	3	4	.....	2	3	2	1	.....	2
1	7	8	3	2	3	4	2	1	.....	2	2	2	.....	.....	2
1	2	1	1	.....	2	.....	1	3	.....	.....	1	.....	1	.....	...
8	11	21	5	2	12	7	13	8	10	16	13	19	16	21	...
1	5	14	1	.....	5	5	4	6	5	5	9	13	7	15	...
7	6	7	4	2	7	2	9	2	5	11	4	6	9	6	...
7	10	28	25	17	26	19	31	35	40	47	57	59	50	74	...
3	6	17	15	4	9	8	14	24	25	28	23	27	32	36	...
4	4	11	10	13	17	11	17	11	15	19	34	32	18	38	...
10	18	26	19	24	31	33	35	26	35	54	41	48	50	74	5
4	11	11	6	13	22	18	17	16	19	24	25	24	33	37	3
6	7	15	13	11	9	15	18	10	16	30	16	24	17	37	2
1	4	7	3	3	1	2	1	4	6	4	5	1	3	4	...
1	2	3	2	.....	1	1	1	1	5	3	2	1	2	2	...
...	2	4	1	3	.....	1	.....	3	1	1	3	.....	1	2	...
23	58	78	88	61	61	70	71	65	89	93	139	149	143	157	5
11	21	30	41	31	30	38	36	37	61	52	91	90	81	96	3
12	37	48	47	30	31	32	35	28	28	41	48	59	62	61	2
1	2	1	1	3	1	1	.....	.....	.....	.....	.....	3	2	1	...
1	1	1	1	3	1	1	.....	.....	.....	.....	.....	.....	2	.....	...
...	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	1	...
1	3	.....	4	3	4	1	1	1	5	2	3	1	2	3	1
1	2	.....	1	3	.....	1	.....	1	3	1	1	1	1	2	1
...	1	.....	3	.....	4	.....	1	.....	2	1	2	.....	1	1	...
13	18	22	9	6	10	11	11	12	16	21	29	30	36	48	...
7	11	9	5	2	4	7	5	10	10	12	10	21	21	24	...
6	7	13	4	4	6	4	6	2	6	9	19	9	15	24	...
3	5	4	5	5	3	4	3	3	2	4	6	5	6	12	...
...	1	3	2	3	2	1	1	3	.....	2	2	4	3	6	...
3	4	1	3	2	1	3	2	.....	2	2	4	1	3	6	...
8	16	26	17	20	16	20	16	36	35	42	49	72	63	101	1
1	7	12	7	9	6	10	7	18	18	21	25	35	32	53	...
7	9	14	10	11	10	10	9	18	17	21	24	37	31	48	1
4	5	6	6	9	1	6	10	7	14	19	21	28	20	35	...
3	2	3	3	2	1	2	7	2	8	7	11	15	12	16	...
1	3	3	3	7	.....	4	3	5	6	12	10	13	8	19	...
1	3	1	3	5	6	10	2	4	3	2	5	3	3	1	5
1	2	.....	2	5	6	9	2	3	1	2	3	2	3	1	5
...	1	1	1	.....	.....	1	.....	1	2	.....	2	1	.....	.....	...
...	6	5	4	3	2	4	3	6	3	3	6	2	3	6	1
..	4	2	3	.....	2	2	3	4	2	.....	3	2	1	5	1
..	2	3	1	3	.....	2	.....	2	1	3	3	.....	2	1	...
4	18	20	12	8	14	19	17	25	18	33	37	34	34	55	...
2	7	12	3	4	6	7	11	12	14	22	24	12	21	26	...
2	11	8	9	4	8	12	6	13	4	11	13	22	13	29	...
8	8	14	11	11	10	7	16	17	7	20	20	18	11	18	2
3	3	4	6	2	7	3	9	10	5	9	12	11	8	14	2
5	5	10	5	9	3	4	7	7	2	11	8	7	3	4	...
6	18	25	25	28	22	21	23	20	17	13	19	18	13	11	1
6	13	17	18	19	12	15	17	11	12	2	9	10	7	7	1
0	5	8	7	9	10	6	6	9	5	11	10	8	6	4	...

Table II.—Continued.—Deaths in Michigan by age

State and counties.	Sex.	Total deaths at all ages, 1902.	Ages in years.				
			Under 1 year.	1.	2.	3.	4
Mason	Totals	184	41	7	1	1	
	Males	97	19	2	1	.....	
	Females	87	22	5	.....	1	
Mecosta	Totals	225	32	4	2	4	1
	Males	130	18	2	1	2	2
	Females	95	14	2	1	2	1
Menominee	Totals	268	89	13	5	3	8
	Males	158	51	10	4	.....	5
	Females	110	38	3	1	3	3
Midland	Totals	147	33	3	3	1	.....
	Males	82	21	2	1	.....	.....
	Females	65	12	1	2	1	.....
Missaukee	Totals	85	21	5	2	1	.....
	Males	45	11	3	1	.....	.....
	Females	40	10	2	1	1	.....
Monroe	Totals	369	78	8	5	5	.....
	Males	184	46	5	4	3	.....
	Females	185	32	3	1	2	.....
Montcalm	Totals	377	53	10	3	2	2
	Males	180	31	1	2	1	1
	Females	197	22	9	1	1	1
Montmorency	Totals	44	9	1	1	.....	.....
	Males	27	4	1	1	.....	.....
	Females	17	5	.....	.....	.....	.....
Muskegon	Totals	415	53	12	3	4	1
	Males	230	36	5	2	4	1
	Females	185	17	7	1	.....	.....
Newaygo	Totals	203	27	6	2	2	3
	Males	117	19	5	1	1	.....
	Females	86	8	1	1	1	3
Oakland	Totals	580	60	12	5	6	3
	Males	335	30	4	2	5	2
	Females	245	30	8	3	1	1
Oceana	Totals	161	26	5	3	.....	2
	Males	84	13	2	2	.....	1
	Females	77	13	3	1	.....	1
Ogemaw	Totals	80	20	3	1	2	2
	Males	47	15	.....	1	.....	.....
	Females	33	5	3	.....	2	2
Ontonagon	Totals	93	26	8	1	1	2
	Males	63	14	4	1	1	1
	Females	30	12	4	.....	.....	1
Osceola	Totals	207	41	5	3	.....	.....
	Males	113	27	3	1	.....	.....
	Females	94	14	2	2	.....	.....
Oscoda	Totals	10	.....	.....	.....	.....	.....
	Males	6	.....	.....	.....	.....	.....
	Females	4	.....	.....	.....	.....	.....
Otsego	Totals	75	15	7	.....	.....	.....
	Males	42	7	3	.....	.....	.....
	Females	33	8	4	.....	.....	.....
Ottawa	Totals	419	57	12	3	5	1
	Males	216	33	9	2	3	.....
	Females	203	24	3	1	2	1

counties and sex, during the year 1902. (Stillbirths excluded.)

Ages in five-year periods.

Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 and over.	Unknown.
51	4	3	16	8	6	6	6	6	14	7	9	8	7	12	11	10	...
22	2	1	11	4	4	3	1	3	7	5	5	6	5	4	9	5	...
29	2	2	5	4	2	3	5	3	7	2	4	2	2	8	2	5	...
45	5	12	9	6	14	4	9	10	14	11	19	13	15	9	16	14	...
25	5	6	4	5	5	2	6	5	9	5	12	10	10	6	7	8	...
20	...	6	5	1	9	2	3	5	5	6	7	3	5	3	9	6	...
118	11	9	12	12	7	7	10	7	10	9	6	12	13	10	3	11	1
70	6	5	7	7	5	3	4	5	7	7	4	9	8	4	2	4	1
48	5	4	5	5	2	4	6	2	3	2	2	3	5	6	1	7	...
40	1	2	10	5	3	4	3	4	6	8	4	8	11	8	15	15	...
24	1	1	3	2	1	2	1	2	3	3	1	4	9	7	8	10	...
16	...	1	7	3	2	2	2	2	3	5	3	4	2	1	7	5	...
29	2	2	3	3	5	3	1	6	3	2	2	4	8	5	5	2	...
15	...	...	2	3	4	...	1	3	3	2	...	3	2	4	3	...	...
14	2	2	1	...	1	3	...	3	...	...	2	1	6	1	2	2	...
96	7	9	14	15	12	12	11	11	9	15	15	24	19	27	35	38	...
58	2	5	5	5	5	3	3	5	4	10	6	12	11	12	18	20	...
38	5	4	9	10	7	9	8	6	5	5	9	12	8	15	17	18	...
70	8	8	16	7	15	13	18	8	16	14	25	19	41	30	36	33	...
36	2	7	5	2	8	5	2	3	8	8	12	6	24	15	17	20	...
34	6	1	11	5	7	8	16	5	8	6	13	13	17	15	19	13	...
11	2	1	4	4	3	1	...	...	2	2	1	7	2	...	1	2	1
6	1	1	2	2	1	...	...	...	2	1	...	7	2	...	...	1	1
5	1	...	2	2	2	1	...	...	...	1	1	...	...	...	1	1	...
73	16	5	19	20	13	21	23	17	20	29	18	26	33	24	25	31	2
48	10	2	10	7	5	5	14	10	8	19	9	13	22	17	9	20	2
25	6	3	9	13	8	16	9	7	12	10	9	13	11	7	16	11	...
40	3	6	4	10	6	4	5	9	11	5	4	13	23	21	17	21	1
26	3	3	2	6	...	2	1	4	5	3	2	11	14	10	10	14	1
14	...	3	2	4	6	2	4	5	6	2	2	2	9	11	7	7	...
86	6	7	19	14	18	19	18	30	17	29	24	41	44	49	63	93	3
43	3	4	11	9	7	10	11	19	7	16	16	23	30	30	38	56	2
43	3	3	8	5	11	9	7	11	10	13	8	18	14	19	25	37	1
36	5	5	2	5	4	2	8	6	6	8	15	8	13	11	8	19	...
18	2	3	2	...	2	1	4	2	3	4	10	3	7	7	5	11	...
18	3	2	...	5	2	1	4	4	3	4	5	5	6	4	3	8	...
28	2	1	6	1	3	1	3	5	2	8	5	...	6	2	2	5	...
16	1	...	3	...	2	1	2	4	1	6	5	...	2	1	1	2	...
12	1	1	3	1	1	...	1	1	1	2	...	...	4	1	1	3	...
38	8	4	...	1	5	5	6	3	2	3	5	1	3	1	4	3	1
21	5	3	...	1	4	3	4	2	2	3	4	...	2	1	4	3	1
17	3	1	...	...	1	2	2	1	...	...	1	1	1	...	...	...	...
49	3	2	9	8	8	6	10	8	8	11	9	15	21	19	7	12	2
31	2	...	4	2	3	4	5	3	2	5	5	9	14	11	5	6	2
18	1	2	5	6	5	2	5	5	6	6	4	6	7	8	2	6	...
...	1	1	...	...	...	...	...	...	1	2	1	1	...	1	...	2	...
...	1	...	...	...	...	...	...	...	...	1	1	1	...	...	...	2	...
...	...	1	...	...	...	...	...	...	1	1	...	...	...	1	...	...	...
22	3	4	2	4	7	2	2	2	3	2	4	3	4	2	2	6	1
10	1	2	...	2	6	1	1	1	1	1	3	3	2	1	2	4	1
12	2	2	2	2	1	1	1	1	2	1	1	...	2	1	...	2	...
78	10	6	19	16	18	9	14	12	19	15	15	26	38	37	33	54	...
47	6	2	8	8	9	3	6	5	11	4	10	9	20	23	20	25	...
31	4	4	11	8	9	6	8	7	8	11	5	17	18	14	13	29	...

Table II.—Concluded.—Deaths in Michigan by ages

State and counties.	Sex.	Total deaths at all ages, 1902	Ages in years.				
			Under 1 year.	1.	2.	3.	4.
Presque Isle	Totals	92	32	3	5	2	1
	Males	48	17	.....	.....	1	.....
	Females	44	15	3	5	1	1
Roscommon	Totals	8	2	.....	.....	.....	.....
	Males	6	.....	.....	.....	.....	.....
	Females	2	2	.....	.....	.....	.....
Saginaw	Totals	995	167	27	26	13	6
	Males	511	90	8	11	8	5
	Females	484	77	19	15	5	1
St. Clair	Totals	728	129	27	10	10	6
	Males	410	87	14	7	2	4
	Females	318	42	13	3	8	2
St. Joseph	Totals	302	27	3	2	4	2
	Males	162	17	3	2	4	2
	Females	140	10	.....	.....	.....	.....
Sanilac	Totals	376	70	9	9	1	2
	Males	213	43	5	6	.....	1
	Females	163	27	4	3	1	1
Schoolcraft	Totals	96	18	4	3	1	.....
	Males	55	7	2	.....	.....	.....
	Females	41	11	2	3	1	.....
Shiawassee	Totals	413	58	10	5	2	.....
	Males	220	36	4	4	.....	.....
	Females	193	22	6	1	2	.....
Tuscola	Totals	417	66	17	9	3	3
	Males	221	37	11	6	1	3
	Females	196	29	6	3	2	.....
Van Buren	Totals	364	34	5	3	2	1
	Males	189	23	3	1	1	1
	Females	175	11	2	2	1	.....
Washtenaw	Totals	660	63	9	9	2	3
	Males	337	43	6	4	1	1
	Females	323	20	3	5	1	2
Wayne	Totals	5,778	1,407	289	134	91	83
	Males	3,078	789	154	75	62	50
	Females	2,700	618	135	59	29	33
Wexford	Totals	207	45	12	5	5	1
	Males	124	29	6	3	1	1
	Females	83	16	6	2	4	....

counties and sex, during the year 1902. (Stillbirths excluded.)

Ages in five-year periods.

Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 and over.	Unknown.
43	7	4	3	4	1	1	2	1	5	.....	3	6	4	1	1	5	1
18	5	4	1	3	1	.....	1	1	3	.....	3	4	1	.....	1	2	...
25	2	....	2	1	.....	1	1	.....	2	.....	.....	2	3	1	.....	3	1
2	....	2	1	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	1	.....	.....	...
...	....	2	1	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	1	.....	.....	...
2	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	...
239	27	23	27	45	43	29	37	39	45	33	36	59	74	81	60	96	2
122	13	16	10	15	17	15	14	17	28	22	23	35	43	43	33	45	...
117	14	7	17	30	26	14	23	22	17	11	13	24	31	38	27	51	2
182	30	15	20	29	46	20	22	35	22	19	32	43	38	46	48	81	...
114	19	6	12	13	18	9	10	20	20	10	21	20	18	28	27	45	...
68	11	9	8	16	28	11	12	15	2	9	11	23	20	18	21	36	...
38	6	5	6	13	14	5	4	8	4	17	17	23	32	33	32	45	...
28	4	3	3	5	4	1	3	3	3	8	12	10	19	18	17	21	...
10	2	2	3	8	10	4	1	5	1	9	5	13	13	15	15	24	...
91	6	10	16	18	20	12	17	11	19	7	7	20	30	35	26	30	1
55	4	7	8	8	3	6	6	4	10	5	2	12	16	23	19	24	1
36	2	3	8	10	17	6	11	7	9	2	5	8	14	12	7	6	...
26	3	3	1	6	4	5	11	6	4	4	3	6	2	7	2	2	1
9	....	2	.....	4	3	1	6	6	4	2	3	5	1	5	2	1	1
17	3	1	1	2	1	4	5	.....	.....	2	.....	1	1	2	.....	1	...
75	9	10	17	17	8	9	13	14	10	21	26	24	32	47	37	42	2
44	3	4	8	9	2	5	6	8	2	16	13	14	22	26	17	19	2
31	6	6	9	8	6	4	7	6	8	5	13	10	10	21	20	23	...
98	7	7	20	13	11	14	15	15	9	15	11	28	30	46	39	37	2
58	4	7	9	6	4	5	4	8	4	6	4	16	18	28	21	17	2
40	3	....	11	7	7	9	11	7	5	9	7	12	12	18	18	20	...
45	6	10	7	15	7	7	13	13	8	13	18	33	34	45	38	52	...
29	3	4	3	4	2	3	3	4	5	7	12	20	15	24	19	32	...
16	3	6	4	11	5	4	10	9	3	6	6	13	19	21	19	20	...
86	12	10	20	27	19	21	23	28	36	25	35	45	58	67	62	82	4
55	5	5	7	11	11	9	13	11	19	14	18	23	29	27	39	39	2
31	7	5	13	16	8	12	10	17	17	11	17	22	29	40	23	43	2
2,004	213	113	175	231	227	228	245	231	209	244	261	265	306	261	255	303	7
1,130	107	56	80	108	112	112	136	138	119	142	139	143	154	140	122	136	4
874	106	57	95	123	115	116	109	93	90	102	122	122	152	121	133	167	3
68	5	9	8	6	6	9	5	5	4	7	25	5	6	14	12	10	3
40	3	6	6	2	4	4	2	2	4	5	15	4	1	10	7	6	3
28	2	3	2	4	2	5	3	3	.....	2	10	1	5	4	5	4	...

Table III.—Causes of death in Michigan, by months

Classification No.	Causes of death, 1902.	Sex.	Total deaths, 1902.	Months of death, 1902. Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
	ALL CAUSES*.....	Totals.	31,472	2,863	2,695	2,982	2,894	2,735	2,244	2,500	2,506	2,584	2,389	2,381	2,699
		Males..	17,040	1,543	1,376	1,621	1,573	1,444	1,244	1,380	1,381	1,377	1,301	1,341	1,459
		Fem...	14,432	1,320	1,319	1,361	1,321	1,291	1,000	1,120	1,125	1,207	1,088	1,040	1,240
1	Typhoid fever.....	Totals.	584	44	39	40	37	37	26	33	46	78	84	65	55
		Males..	338	23	19	19	24	25	18	19	23	41	49	45	33
		Fem...	246	21	20	21	13	12	8	14	23	37	35	20	22
	Typho-malarial fever	Totals.	24	3	3	1	1	1	1	4	1	3	3	1	2
		Males..	13	2	2	.....	.....	.....	.....	2	.....	2	3	.....	2
		Fem...	11	1	1	1	1	1	1	2	1	1	.....	1	.....
4	Malarial fever.....	Totals.	89	6	5	7	9	4	6	5	10	14	11	6	6
		Males..	43	2	4	6	5	2	3	.....	4	5	6	3	3
		Fem...	46	4	1	1	4	2	3	5	6	9	5	3	3
5	Smallpox.....	Totals.	42	4	5	3	6	1	7	4	3	.....	3	1	5
		Males..	25	4	3	2	3	1	4	1	3	.....	2	.....	2
		Fem...	17	.....	2	1	3	.....	3	3	.....	.....	1	1	3
6	Measles.....	Totals.	238	26	17	39	39	46	27	11	8	4	3	7	11
		Males..	129	12	7	27	22	22	13	6	4	3	2	4	7
		Fem...	109	14	10	12	17	24	14	5	4	1	1	3	4
7	Scarlet fever.....	Totals.	277	39	23	40	32	26	18	11	12	17	20	24	15
		Males..	133	18	13	21	11	10	9	6	5	9	10	11	10
		Fem...	144	21	10	19	21	16	9	5	7	8	10	13	5
8	Whooping cough....	Totals.	289	19	18	27	25	27	33	28	26	24	13	25	24
		Males..	123	8	4	12	13	12	16	12	8	8	6	11	13
		Fem...	166	11	14	15	12	15	17	16	18	16	7	14	11
9	Diphtheria.....	Totals.	396	24	25	23	20	21	25	24	30	42	65	42	55
		Males..	217	7	13	13	12	8	14	11	18	23	38	29	31
		Fem...	179	17	12	10	8	13	11	13	12	19	27	13	24
	Croup.....	Totals.	43	4	4	8	4	4	1	.....	1	2	4	5	6
		Males..	27	2	1	5	4	2	1	.....	1	2	2	5	2
		Fem...	16	2	3	3	.....	2	.....	.....	.....	.....	2	.....	4
	Membraneous croup.	Totals.	65	9	7	5	5	6	3	2	5	4	7	3	9
		Males..	33	3	4	3	3	2	1	2	3	3	4	1	4
		Fem...	32	6	3	2	2	4	2	.....	2	1	3	2	5
10	Influenza.....	Totals.	335	59	68	63	41	22	10	3	1	10	10	16	32
		Males..	162	28	32	34	20	10	2	1	1	7	6	4	17
		Fem...	173	31	36	29	21	12	8	2	.....	3	4	12	15
13	Cholera nostras.....	Totals.	36	.....	1	1	.....	2	2	10	12	4	2	1	1
		Males..	21	.....	1	1	.....	2	.....	7	8	1	1	.....	.....
		Fem...	15	.....	.....	.....	.....	.....	2	3	4	3	1	1	1
14	Dysentery.....	Totals.	136	6	5	6	5	5	6	13	30	33	16	8	3
		Males..	72	3	5	2	1	.....	4	7	18	19	8	5	.....
		Fem...	64	3	.....	4	4	5	2	6	12	14	8	3	3
18	Erysipelas.....	Totals.	100	15	14	14	12	5	4	5	5	5	6	7	8
		Males..	53	6	11	7	6	3	2	2	2	2	5	2	5
		Fem...	47	9	3	7	6	2	2	3	3	3	1	5	3
	Chicken pox.....	Totals.	6	.....	1	1	2	.....	.....	.....	.....	1	.....	.....	1
		Males..	2	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
		Fem...	4	.....	1	1	2	.....	.....	.....	.....	.....	.....	.....	.....
19	German measles....	Totals.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Males..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Mumps.....	Totals.	10	2	2	2	1	1	.....	1	.....	.....	.....	.....	1
		Males..	8	2	2	2	.....	1	.....	.....	.....	.....	.....	.....	1
		Fem...	2	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....

* Stillbirths not included.

ages and sex, during the year 1902. (Stillbirths excluded.)

Ages in years under five.					Ages by five-year period.																		Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.	
5,949	1108	506	345	254	8,162	884	598	1011	1289	1194	1051	1147	1204	1174	1280	1436	1741	2123	2204	2090	2784	100	
3,377	587	271	188	139	4,562	478	299	493	617	586	503	574	651	665	754	816	927	1177	1212	1149	1502	75	
2,572	521	235	157	115	3,600	406	299	518	672	608	548	573	553	509	526	620	814	946	992	941	1282	25	
3	8	3	6	10	30	41	38	93	90	72	49	36	29	28	17	18	18	11	6	3	4	1	1
1	4	2	3	7	17	27	15	49	51	48	39	19	17	20	10	12	5	3	2	...	3	1	
2	4	1	3	3	13	14	23	44	39	24	10	17	12	8	7	6	13	8	4	3	1	...	
2	...	1	...	...	3	1	1	3	1	2	2	2	2	1	1	1	...	2	1	...	1	...	
...	...	1	...	...	1	...	1	2	1	1	1	...	2	1	...	...	...	2	1	...	...	...	
2	...	...	...	...	2	1	...	1	...	1	1	2	...	...	1	1	...	...	...	...	1	...	
1	4	3	2	1	11	9	1	8	5	6	5	6	5	4	3	4	4	5	6	2	5	...	4
1	2	2	...	...	5	4	...	3	4	2	2	2	3	1	2	3	2	1	4	2	3	...	
...	2	1	2	1	6	5	1	5	1	4	3	4	2	3	1	1	2	4	2	...	2	...	
10	2	2	2	...	16	...	...	4	2	3	5	3	...	3	...	...	1	2	2	1	...	...	5
4	1	1	1	...	7	...	...	2	2	3	3	2	...	3	...	...	1	1	1	...	...	...	
6	1	1	1	...	9	...	...	2	...	...	2	1	...	...	...	...	...	1	1	1	...	...	
55	57	25	20	10	167	33	6	8	7	3	1	6	2	1	1	2	1	...	...	...	...	...	6
30	30	14	11	6	91	16	4	5	5	1	1	2	1	1	...	2	...	...	...	...	...	...	
25	27	11	9	4	76	17	2	3	2	2	...	4	1	...	1	...	1	...	...	...	...	...	
21	40	45	30	28	164	84	14	3	7	2	2	...	...	...	1	...	...	...	...	...	...	...	7
11	19	23	13	15	81	46	4	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	
10	21	22	17	13	83	38	10	2	7	2	1	...	...	...	1	...	...	...	...	...	...	...	
167	68	20	17	6	278	8	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2	8
77	30	8	3	2	120	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	
90	38	12	14	4	158	7	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
14	37	30	35	35	151	150	49	21	10	6	4	...	1	...	...	1	...	1	...	...	1	1	9
5	19	21	25	15	85	87	22	12	5	2	1	...	...	...	...	1	...	1	...	...	1	...	
9	18	9	10	20	66	63	27	9	5	4	3	...	1	...	...	...	...	...	...	...	...	1	
12	7	6	8	2	35	7	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
7	5	4	5	1	22	4	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
5	2	2	3	1	13	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
7	10	13	15	3	48	14	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
5	4	7	9	3	28	4	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
2	6	6	6	...	20	10	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
26	7	1	3	4	41	5	2	3	7	8	6	6	5	14	7	15	20	35	40	49	72	...	10
15	2	1	2	4	24	2	1	...	5	2	2	4	2	10	4	7	10	14	22	15	38	...	
11	5	...	1	...	17	3	1	3	2	6	4	2	3	4	3	8	10	21	18	34	34	...	
7	1	...	...	1	9	3	1	1	...	...	1	...	...	3	...	1	2	5	3	4	3	...	13
6	1	...	...	...	7	3	...	...	...	...	...	...	...	3	...	...	1	4	1	2	...	...	
1	...	...	...	1	2	...	1	1	...	...	1	...	...	...	...	1	1	1	2	2	3	...	
26	11	10	6	3	56	2	...	1	1	...	2	3	2	5	2	6	8	7	13	13	14	1	14
12	7	8	3	2	32	...	...	1	...	...	...	...	1	3	1	3	6	4	5	8	7	1	
14	4	2	3	1	24	2	...	...	1	...	2	3	1	2	1	3	2	3	8	5	7	...	
18	1	...	...	...	19	1	1	2	5	1	3	5	5	5	11	7	2	10	4	9	10	...	18
5	1	...	...	...	6	1	1	2	1	1	1	2	4	3	7	4	...	7	3	3	7	...	
13	...	...	...	...	13	...	...	...	4	...	2	3	1	2	4	3	2	3	1	6	3	...	
4	1	...	...	...	5	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19
1	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
3	...	...	...	...	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
3	1	2	...	...	6	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	
3	1	1	...	...	5	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	
...	...	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

Table III.—Continued.—Causes of death in Michigan, by m

Classification No.	Causes of death, 1902.	Sex.	Total deaths, 1902.	Months of death, 1902.										
				Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	N
20	Septicæmia.....	Totals.	128	10	13	10	12	10	10	5	11	7	13	
		Males..	71	7	8	6	9	8	6	3	3	4	6	
		Fem...	57	3	5	4	3	2	4	2	8	3	7	
27	Tuberculosis of lungs.....	Totals.	2,088	189	158	204	210	208	178	156	164	169	148	1
		Males..	983	93	68	94	86	110	88	76	78	84	66	
		Fem...	1,105	96	90	110	124	98	90	80	86	85	82	
26	Tuberculosis of larynx.....	Totals.	19	1	2	3	1	4	1	1	.....	1	1	
		Males..	10	.....	.....	2	1	3	1	.....	.....	1	.....	
		Fem...	9	1	2	1	.....	1	.....	1	.....	.....	1	
28	Tuberculous meningitis.....	Totals.	105	3	5	9	15	11	7	9	7	8	9	
		Males..	47	2	1	3	8	4	4	4	3	4	3	
		Fem...	58	1	4	6	7	7	3	5	4	4	6	
29	Abdominal tuberculosis.....	Totals.	114	9	11	5	10	13	13	10	10	10	3	
		Males..	52	9	6	2	3	6	4	2	5	4	.....	
		Fem...	62	.....	5	3	7	7	9	8	5	6	3	
30	Pott's disease.....	Totals.	24	2	2	2	1	.....	3	.....	4	3	1	
		Males..	11	1	2	1	.....	.....	1	.....	1	1	.....	
		Fem...	13	1	.....	1	1	.....	2	.....	3	2	1	
31	Tuberculous abscess	Totals.	3	.....	.....	1	.....	.....	.....	.....	.....	.....	1	...
		Males..	2	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	...
		Fem...	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	...
32	White swelling.....	Totals.	18	1	3	1	2	2	.....	2	1	1	3	
		Males..	12	1	.....	1	2	1	.....	2	1	1	1	
		Fem...	6	.....	3	.....	.....	1	.....	.....	.....	.....	2	...
33	Tuberculosis of other organs.....	Totals.	37	3	1	3	3	5	5	5	1	4	3	
		Males..	22	1	1	2	2	4	4	2	.....	2	3	
		Fem...	15	2	.....	1	1	1	1	3	1	2	.....	
34	General tuberculosis	Totals.	37	1	3	.....	4	5	2	4	2	1	3	
		Males..	16	1	1	.....	1	2	1	.....	1	.....	2	
		Fem...	21	.....	2	.....	3	3	1	4	1	1	1	
35	Scrofula.....	Totals.	17	.....	1	2	1	.....	2	.....	1	1	4	
		Males..	12	.....	.....	2	1	.....	1	.....	1	1	3	
		Fem...	5	.....	1	.....	.....	.....	1	.....	.....	.....	1	
36-38	Venereal diseases...	Totals.	114	10	13	10	12	4	10	10	10	10	10	
		Males..	75	7	8	7	9	2	7	8	6	8	5	
		Fem...	39	3	5	3	3	2	3	2	4	2	5	
39	Cancer of mouth....	Totals.	50	2	2	2	4	5	1	6	4	4	9	
		Males..	42	1	2	2	3	3	1	5	3	4	8	
		Fem...	8	1	.....	.....	1	2	.....	1	1	.....	1	...
40	Cancer of stomach and liver.....	Totals.	629	44	48	59	60	52	48	65	57	55	44	
		Males..	328	24	22	28	40	27	21	29	27	31	20	
		Fem...	301	20	26	31	20	25	27	36	30	24	24	
41	Cancer of intestines.	Totals.	130	16	13	13	11	5	8	9	13	12	7	
		Males..	71	12	4	10	7	2	4	4	7	6	4	
		Fem...	59	4	9	3	4	3	4	5	6	6	3	
42	Cancer of genital organs.....	Totals.	214	26	19	13	20	17	23	18	21	12	7	
		Males..	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	...
		Fem...	213	26	19	13	20	17	23	18	21	12	7	
43	Cancer of breast....	Totals.	132	15	12	9	14	6	13	12	5	8	14	
		Males..	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
		Fem...	131	15	12	9	14	6	13	12	5	8	14	
44	Cancer of skin.....	Totals.	67	8	5	7	3	9	6	5	6	5	6	
		Males..	51	7	3	6	2	7	4	5	4	2	4	
		Fem...	16	1	2	1	1	2	2	.....	2	3	2	...

ages and sex, during the year 1902. (Stillbirths excluded.)

Ages in years under five.					Ages by five-year periods.																		Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.	
9	1	3	1	1	15	1	...	10	4	10	11	16	10	6	6	5	7	10	8	2	6	1	20
4	...	3	...	1	8	1	...	5	1	3	2	7	6	4	5	3	6	8	5	2	4	1	
5	1	...	1	...	7	...	...	5	3	7	9	9	4	2	1	2	1	2	3	...	2	...	
24	10	5	6	4	49	14	39	196	355	330	226	201	161	122	96	82	62	63	52	28	11	1	27
14	6	4	5	2	31	4	12	56	141	144	117	96	92	69	53	48	29	37	33	16	4	1	
10	4	1	1	2	18	10	27	140	214	186	109	105	69	53	43	34	33	26	19	12	7	...	
2	...	...	...	...	2	...	...	...	2	3	3	3	...	3	...	...	2	...	1	...	...	...	26
2	...	...	...	...	2	...	...	...	1	2	...	1	...	3	...	...	...	...	1	...	...	...	
...	...	...	...	...	...	...	...	...	1	1	3	2	...	...	...	...	2	...	...	...	...	...	
31	12	4	5	6	58	14	5	9	3	4	2	1	2	1	2	1	...	2	...	1	...	...	28
14	7	3	4	2	30	3	2	5	1	1	...	...	1	1	1	1	...	...	...	1	...	...	
17	5	1	1	4	28	11	3	4	2	3	2	1	1	...	1	...	...	2	...	...	...	...	
7	2	1	1	...	11	6	2	12	13	16	10	5	7	3	6	7	8	3	1	4	...	...	29
4	2	1	1	...	8	2	1	3	2	7	5	3	4	1	3	4	2	3	1	3	...	...	
3	...	...	...	...	3	4	1	9	11	9	5	2	3	2	3	3	6	...	...	1	...	...	
...	...	...	...	...	...	3	1	4	2	3	...	4	4	...	2	...	1	...	...	...	...	...	30
...	...	...	...	...	...	1	...	1	...	1	...	2	4	...	1	...	1	...	...	...	...	...	
...	...	...	...	...	...	2	1	3	2	2	...	2	...	...	1	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	1	...	...	1	1	...	...	...	...	...	...	...	...	31
...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	
2	...	...	...	1	3	1	1	2	...	3	...	1	...	1	1	2	...	1	2	...	...	...	32
1	...	...	...	1	2	1	1	1	...	2	...	1	...	1	1	2	...	...	...	...	...	...	
1	...	...	...	...	1	...	...	1	...	1	...	...	...	...	...	...	...	1	2	...	...	...	
...	2	...	...	...	2	1	2	4	5	7	2	4	4	...	1	2	2	1	...	...	...	...	33
...	...	...	...	...	...	1	1	3	2	5	...	1	4	...	1	2	1	1	...	...	...	...	
...	2	...	...	...	2	...	1	1	3	2	2	3	...	...	...	...	1	...	...	...	...	...	
1	1	...	...	...	2	1	1	2	7	5	2	4	2	1	4	2	2	1	...	...	1	...	34
1	1	...	...	...	2	1	...	1	3	2	...	3	...	...	1	1	1	...	...	...	1	...	
...	...	...	...	...	...	...	1	1	4	3	2	1	2	1	3	1	1	1	...	...	...	...	
11	...	1	1	...	13	1	...	...	1	...	...	...	...	1	...	...	...	1	...	...	...	...	35
6	...	1	1	...	8	1	...	...	1	...	...	...	...	1	...	...	...	1	...	...	...	...	
5	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
78	2	...	...	...	80	...	...	...	2	6	6	2	4	3	1	3	1	1	1	2	2	...	36–38
50	1	...	...	...	51	...	...	...	1	5	2	1	4	2	1	2	1	1	1	1	2	...	
28	1	...	...	...	29	...	...	...	1	1	4	1	...	1	...	1	...	...	...	1	...	...	
...	...	...	...	...	...	...	...	...	...	...	...	1	1	2	2	5	5	9	11	6	8	...	39
...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	2	2	4	9	10	5	7	...	
...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	3	1	...	1	1	1	...	
...	...	1	1	...	2	...	...	1	2	5	9	18	42	49	66	79	95	102	75	52	31	1	40
...	...	1	1	...	2	...	...	1	...	4	4	7	27	23	33	45	45	57	41	26	12	1	
...	...	...	...	...	...	...	...	...	2	1	5	11	15	26	33	34	50	45	34	26	19	...	
...	...	...	...	...	...	...	...	...	2	4	1	5	6	13	8	17	21	22	17	7	5	2	41
...	...	...	...	...	...	...	...	...	1	2	...	2	2	3	3	12	13	14	11	4	2	2	
...	...	...	...	...	...	...	...	...	1	2	1	3	4	10	5	5	8	8	6	3	3	...	
...	...	...	...	...	...	...	...	1	1	3	14	11	36	27	27	31	29	20	6	2	5	1	42
...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	1	1	3	14	11	36	26	27	31	29	20	6	2	5	1	
...	...	...	...	...	...	...	...	...	...	1	3	2	14	23	13	17	16	19	10	5	9	...	43
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	1	3	2	14	23	12	17	16	19	10	5	9	...	
...	...	...	...	...	...	...	...	1	...	...	1	2	...	6	4	9	5	8	6	4	21	...	44
...	...	...	...	...	...	...	...	1	...	...	1	2	...	4	3	8	4	6	4	3	15	...	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1	1	1	2	2	1	6	...	

Table III.—Continued.—Causes of death in Michigan, by months.

Classification No.	Causes of death, 1902.	Sex.	Total deaths, 1902.	Months of death, 1902.											
				Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
45	Cancer of other organs	Totals.	261	19	22	23	22	15	15	26	24	18	20	31	26
		Males.	134	6	9	15	13	9	10	13	11	11	11	14	12
		Fem.	127	13	13	8	9	6	5	13	13	7	9	17	14
46	Tumors	Totals.	39	3	7	3	7	6	.....	4	2	1	3	2	1
		Males.	13	.....	3	2	4	1	.....	2	.....	.....	1	.....	.....
		Fem.	26	3	4	1	3	5	.....	2	2	1	2	2	1
47,48	Rheumatism	Totals.	193	18	22	23	10	15	14	18	13	20	14	12	14
		Males.	90	7	7	15	6	7	10	6	5	8	10	4	5
		Fem.	103	11	15	8	4	8	4	12	8	12	4	8	9
50	Diabetes	Totals.	289	29	32	18	30	27	18	13	25	26	27	21	21
		Males.	143	10	16	7	13	15	12	5	17	13	13	10	12
		Fem.	146	19	16	11	17	12	6	8	8	13	14	11	11
53,54	Anemia	Totals.	190	18	12	21	19	20	19	18	12	18	13	8	12
		Males.	88	12	3	9	7	8	10	5	5	9	5	5	10
		Fem.	102	6	9	12	12	12	9	13	7	9	8	3	2
56	Alcoholism	Totals.	73	7	5	8	5	2	4	8	5	7	6	11	7
		Males.	65	7	5	6	3	2	4	6	5	7	5	9	6
		Fem.	8	.....	.....	2	.....	.....	.....	2	.....	.....	1	2	1
57,59	Chronic poisonings	Totals.	23	5	3	2	1	1	2	2	1	1	1	2	2
		Males.	13	2	2	2	.....	.....	2	2	.....	.....	1	1	1
		Fem.	10	3	1	.....	1	1	.....	.....	1	1	.....	1	1
55 etc	Other general diseases	Totals.	59	7	5	8	1	2	.....	11	4	7	5	6	3
		Males.	22	.....	2	5	.....	.....	.....	2	4	2	3	3	1
		Fem.	37	7	3	3	1	2	.....	9	.....	5	2	3	2
60	Encephalitis	Totals.	66	4	4	9	5	5	6	7	4	6	4	5	7
		Males.	38	2	3	5	4	2	4	5	2	2	2	3	4
		Fem.	28	2	1	4	1	3	2	2	2	4	2	2	3
61	Meningitis	Totals.	384	33	33	37	40	46	22	42	34	31	25	17	24
		Males.	216	19	14	22	25	22	12	22	18	21	18	8	15
		Fem.	168	14	19	15	15	24	10	20	16	10	7	9	9
62	Locomotor ataxia	Totals.	56	7	6	3	9	5	4	4	6	2	4	1	5
		Males.	42	6	3	1	7	5	3	2	6	1	3	1	4
		Fem.	14	1	3	2	2	.....	1	2	.....	1	1	.....	1
63	Other diseases of spinal cord	Totals.	136	12	10	11	11	8	11	10	15	13	14	12	9
		Males.	72	7	4	6	6	3	5	4	8	7	8	8	6
		Fem.	64	5	6	5	5	5	6	6	7	6	6	4	3
64	Apoplexy	Totals.	1,249	113	113	115	100	121	108	94	88	97	78	113	109
		Males.	670	62	58	61	54	65	66	56	44	49	45	58	52
		Fem.	579	51	55	54	46	56	42	38	44	48	33	55	57
65	Softening of brain	Totals.	88	9	5	12	7	7	8	7	6	6	8	7	6
		Males.	52	7	3	4	6	5	5	3	4	3	2	6	4
		Fem.	36	2	2	8	1	2	3	4	2	3	6	1	2
66	Paralysis	Totals.	760	75	65	53	69	73	70	61	54	53	55	69	63
		Males.	387	33	36	33	36	31	34	33	26	29	26	37	33
		Fem.	373	42	29	20	33	42	36	28	28	24	29	32	30
67	General paralysis of insane	Totals.	143	29	8	16	16	13	11	12	9	2	6	14	16
		Males.	100	14	7	10	11	11	6	9	5	1	4	9	13
		Fem.	43	6	1	6	5	2	5	3	4	1	2	5	3
68	Other forms of mental disease	Totals.	80	9	6	8	3	9	3	7	3	8	7	9	8
		Males.	46	4	1	5	1	7	2	4	2	6	3	5	6
		Fem.	34	5	5	3	2	2	1	3	1	2	4	4	2
(74)	Other diseases of the brain	Totals.	65	9	7	7	3	5	3	5	7	4	5	4	6
		Males.	38	4	5	5	1	3	2	3	3	1	3	4	4
		Fem.	27	5	2	2	2	2	1	2	4	3	2	.....	2

ages and sex, during the year 1902. (Stillbirths excluded.)

Ages in years under five.					Ages by five-year periods.																		Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 to +	Unknown.	
1	1	2	1	...	5	...	3	4	1	3	5	7	22	23	24	37	29	35	22	14	26	1	
1	...	2	1	...	4	...	2	1	1	2	1	2	4	7	13	22	17	26	10	7	14	1	45
...	1	...	...	...	1	...	1	3	...	1	4	5	18	16	11	15	12	9	12	7	12	...	
1	...	...	...	...	1	...	...	...	1	...	...	2	3	3	4	4	7	4	3	4	3	...	
...	...	...	...	...	...	...	...	...	1	...	...	1	1	2	2	...	1	...	1	2	2	...	46
1	...	...	...	...	1	...	...	...	...	...	...	1	2	1	2	4	6	4	2	2	1	...	
3	1	1	...	...	5	7	15	12	9	5	12	8	6	8	9	13	18	17	17	13	19	...	
2	...	1	...	...	3	2	5	4	6	...	5	4	2	5	6	7	10	9	8	3	11	...	47,
1	1	...	...	...	2	5	10	8	3	5	7	4	4	3	3	6	8	8	9	10	8	...	48
3	1	3	2	2	11	15	18	19	13	13	9	11	17	10	16	25	23	34	32	9	14	...	
2	1	2	...	1	6	7	7	14	6	7	4	5	6	4	13	10	12	9	17	6	10	...	50
1	...	1	2	1	5	8	11	5	7	6	5	6	11	6	3	15	11	25	15	3	4	...	
10	5	1	2	1	19	5	4	7	12	7	7	6	15	17	12	14	18	16	9	14	8	...	
4	4	1	...	...	9	5	1	1	4	...	2	4	7	10	6	5	7	7	5	8	7	...	53,
6	1	...	2	1	10	...	3	6	8	7	5	2	8	7	6	9	11	9	4	6	1	...	54
...	...	...	...	...	...	...	...	...	2	3	4	13	8	6	14	6	3	3	3	2	...	6	
...	...	...	...	...	...	...	...	...	2	3	3	10	7	6	13	5	3	3	3	2	...	5	56
...	...	...	...	...	...	...	...	...	...	...	1	3	1	...	1	1	...	...	...	...	...	1	
...	...	...	...	...	...	...	...	...	3	2	2	1	1	...	...	3	2	6	...	1	2	...	
...	...	...	...	...	...	...	...	...	2	...	...	1	1	...	...	2	1	4	...	...	2	...	57,
...	...	...	...	...	...	...	...	...	1	2	2	...	...	...	...	1	1	2	...	1	...	...	59
2	1	...	1	...	4	1	...	...	4	4	5	5	7	6	7	2	5	1	4	3	1	...	
...	1	...	1	...	2	...	...	...	1	3	1	1	4	1	1	1	2	1	2	1	1	...	55
2	...	...	...	...	2	1	...	...	3	1	4	4	3	5	6	1	3	...	2	2	...	...	etc.
21	8	4	3	...	36	10	2	2	2	2	2	2	3	1	1	...	...	...	1	1	1	...	
14	6	2	2	...	24	3	...	2	2	1	...	1	3	1	...	...	...	...	...	1	...	...	60
7	2	2	1	...	12	7	2	...	...	1	2	1	...	...	1	...	...	...	1	...	1	...	
124	56	19	13	9	221	44	24	20	9	12	7	9	8	7	7	4	3	2	4	2	...	1	
74	32	13	7	4	130	19	12	7	5	7	6	9	4	4	6	3	2	...	2	...	...	...	61
50	24	6	6	5	91	25	12	13	4	5	1	...	4	3	1	1	1	2	2	2	...	1	
...	...	...	...	...	...	...	...	...	...	...	2	4	7	6	8	5	9	5	3	3	4	...	
...	...	...	...	...	...	...	...	...	...	...	2	3	5	4	7	4	7	4	2	2	2	...	62
...	...	...	...	...	...	...	...	...	...	...	...	1	2	2	1	1	2	1	1	1	2	...	
10	1	1	1	...	13	5	1	3	5	3	3	9	6	6	13	7	12	17	11	10	12	...	
4	...	1	...	...	5	3	...	...	4	2	3	4	4	5	7	6	7	9	4	3	6	...	63
6	1	...	1	...	8	2	1	3	1	1	...	5	2	1	6	1	5	8	7	7	6	...	
36	12	3	...	...	51	5	4	9	12	10	12	22	39	48	73	92	142	175	178	165	207	5	
18	6	2	...	...	26	3	2	4	5	4	10	15	24	22	36	50	71	102	97	86	110	3	64
18	6	1	...	...	25	2	2	5	7	6	2	7	15	26	37	42	71	73	81	79	97	2	
...	...	...	...	...	...	...	...	...	1	...	1	...	1	2	4	8	8	17	18	14	14	...	
...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	2	5	3	11	13	12	5	...	65
...	...	...	...	...	...	...	...	...	...	...	1	...	1	2	2	3	5	6	5	2	9	...	
1	1	...	2	2	6	2	2	2	6	7	4	11	13	20	24	46	53	118	128	138	178	2	
1	...	...	1	...	2	2	2	1	2	1	2	6	9	13	14	27	27	58	63	70	87	1	66
...	1	...	1	2	4	...	...	1	4	6	2	5	4	7	10	19	26	60	65	68	91	1	
...	...	...	...	...	...	...	...	...	...	1	7	14	17	12	10	8	11	21	11	15	14	2	
...	...	...	...	...	...	...	...	...	...	...	7	10	17	7	6	6	8	12	6	9	10	2	67
...	...	...	...	...	...	...	...	...	...	1	...	4	...	5	4	2	3	9	5	6	4	...	
...	...	...	...	...	...	...	...	1	1	...	4	6	10	6	9	6	10	9	7	7	4	...	
...	...	...	...	...	...	...	...	...	1	...	2	4	6	2	4	3	5	5	7	6	1	...	68
...	...	...	...	...	...	...	...	1	...	...	2	2	4	4	5	3	5	4	...	1	3	...	
8	1	...	2	1	12	5	3	...	1	8	5	6	2	5	1	4	4	3	3	1	1	1	
3	1	...	1	1	6	4	2	...	1	7	3	2	1	3	1	1	1	3	2	1	...	...	(74)
5	...	...	1	...	6	1	1	...	...	1	2	4	1	2	...	3	3	...	1	...	1	1	

[illegible] of death in Michigan, by months.

Classification No.	Causes of death, 1902.	[illegible]	[illegible]	July.	Aug.	Sept.	Oct.	Nov.	Dec.
		[illegible] of death, 1902.							
45	[illegible]	[illegible]	8	11	9	12	10	12	14
		[illegible]	6	5	5	7	8	8	4
		[illegible]	2	6	4	5	2	[illegible]	10
46	Tumor	[illegible]	28	35	32	43	30	45	37
		[illegible]	17	23	17	21	14	33	22
		[illegible]	11	12	15	22	16	12	15
47,48	Rheum[illegible]	4	3	5	3	2	2	2	5
		3	3	4	2	1	2	2	5
		1	.....	1	1	1	....	..	..
50	Diabe[illegible]	[illegible]	6	6	9	14	5	14	10
		2	1	4	7	4	1	8	5
		6	5	2	2	10	4	[illegible]	5
53,54	Ac[illegible]	[illegible]	5	2	5	8	1		3
		[illegible]	5	2	2	2	1		2
		4	.....	.....	3	1	....	..	1
56	Al[illegible]	[illegible]	12	11	9	8	8	14	17	10
		[illegible]	7	5	7	4	1	4	12	5
		[illegible]	5	6	2	4	7	10	5	5
57,59	[illegible]	[illegible]	277	219	217	204	210	218	272	292
		[illegible]	152	118	24	119	102	110	116	144
		125	101	93	85	108	102	97	148
55 etc.	[illegible]	[illegible]	17	16	11	14	21	14	18	24
		[illegible]	14	11	8	11	11	5	12	15
		[illegible]	3	5	3	3	10	9	[illegible]	9
60		[illegible]	15	12	14	12	18	12	14	14
		[illegible]	11	10	7	9	10	7	10	12
		[illegible]	4	2	7	3	8	5	4	2
61		[illegible]	2	6	2	3	6	4	5	5
		[illegible]	2	3	1	1	3	4	[illegible]	3
		[illegible]	..	3	1	2	3	..	6	2
62		[illegible]	..	.	...	1	.....	1	.	1
		[illegible]	.....	..	.....	.....	...			.
		....	..	....	1	...		1	...	1
[illegible]		[illegible]	.....	.	..	.....	...	.	1	1
		[illegible]	..	.		...	...	...	...	.
		[illegible]	...	.	..	...	...	..	1	.
[illegible]		[illegible]	6	4	2	1	1	3	2	5
		[illegible]	3	2	1	1	1	2	2	3
		[illegible]	3	2	1	.	..	1	...	.
[illegible]		[illegible]	3	2	2	1	1	4	3	2
		[illegible]	1	1	1	1	1	1	[illegible]	1
		1	2	1	[illegible]	.	.	.	1	
[illegible]		[illegible]	3	2	[illegible]		.	[illegible]	3	.
		[illegible]	[illegible]	[illegible]				[illegible]	[illegible]	
		[illegible]	1	1	1	.	....	..	1	
						.	1		1	1
		.			..	.	1	.	1	1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

ages and sex, during the year 1902. (Stillbirths excluded.)

Ages in years under five.					Ages by five-year period.																	
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.	Classification No.
12	....	....	....	....	12	3	10	10	12	12	8	13	17	11	5	2	7	11	6	8	5	....	69
8	....	....	....	....	8	3	6	4	6	5	5	8	8	7	2	2	3	6	4	2	5	....	
4	....	....	....	....	4	....	4	6	6	7	3	5	9	4	3	....	4	5	2	6	....	....	
402	29	14	6	1	452	6	....	3	3	3	1	....	2	....	1	....	....	....	1	....	1	....	70, 71
261	13	9	3	....	286	2	....	2	1	2	....	....	1	....	1	....	....	....	....	....	1	....	
141	16	5	3	1	166	4	....	1	2	1	1	....	1	....	....	....	....	....	1	....	....	....	
5	....	1	1	....	7	6	9	3	....	....	....	1	2	1	....	1	....	3	....	....	....	....	72
3	....	1	1	....	5	6	7	3	....	....	....	1	1	....	....	1	....	2	....	....	....	....	
2	....	....	....	....	2	....	2	....	....	....	....	....	1	1	....	....	....	1	....	....	....	....	
11	8	2	2	5	28	6	8	6	3	3	4	4	7	4	10	3	9	6	11	6	5	1	73, 76
6	3	....	2	3	14	2	4	2	1	....	3	....	3	2	6	2	2	3	8	1	3	1	
5	5	2	....	2	14	4	4	4	2	3	1	4	4	2	4	1	7	3	3	5	2	....	
2	....	....	....	....	2	1	5	2	2	2	1	3	2	3	....	2	3	3	3	3	8	....	77
....	....	....	....	....	....	1	4	1	2	1	1	2	1	1	....	2	....	2	1	2	6	....	
2	....	....	....	....	2	....	1	1	....	1	....	1	1	2	....	....	3	1	2	1	2	....	
1	....	....	....	3	4	9	10	9	3	3	8	5	2	3	12	8	8	17	12	7	9	....	78
1	....	....	....	2	3	5	2	4	1	....	4	3	2	1	5	7	4	12	5	4	7	....	
....	....	....	....	1	1	4	8	5	2	3	4	2	....	2	7	1	4	5	7	3	2	....	
37	6	2	2	2	49	32	45	46	49	40	53	72	107	118	167	228	336	362	442	387	374	3	79
22	3	1	2	1	29	16	18	27	23	18	23	32	45	67	97	125	195	203	235	228	209	1	
15	3	1	....	1	20	16	27	19	26	22	30	40	62	51	70	103	141	159	207	159	165	2	
1	....	1	....	....	2	1	1	....	3	3	3	8	3	10	21	16	34	38	29	21	25	....	80
1	....	....	....	....	1	1	1	....	....	....	1	6	2	9	13	13	20	26	19	12	20	....	
....	....	1	....	....	1	....	....	....	3	3	2	2	1	1	8	3	14	12	10	9	5	....	
....	....	....	....	....	....	1	1	....	3	1	2	1	3	7	7	11	13	26	22	33	43	....	81
....	....	....	....	....	....	1	....	....	3	1	1	1	2	5	5	8	7	16	16	25	25	....	
....	....	....	....	....	....	....	1	....	....	....	1	....	1	2	2	3	6	10	6	8	18	....	
3	....	....	....	....	3	1	3	....	4	3	5	1	3	4	1	4	7	2	6	6	6	1	82
2	....	....	....	....	2	1	1	....	1	1	3	....	....	3	1	4	5	1	5	3	4	1	
1	....	....	....	....	1	....	2	....	3	2	2	1	3	1	....	....	2	1	1	3	2	....	
....	....	....	....	....	....	....	....	....	....	....	....	....	2	1	1	1	....	....	1	....	1	....	83
....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	1	....	
....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	1	....	....	1	....	....	....	
3	....	....	....	1	4	....	....	....	....	....	....	....	1	....	....	1	....	1	....	....	....	....	84
2	....	....	....	....	2	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	
1	....	....	....	1	2	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	
19	....	2	....	....	21	....	....	1	....	2	....	3	1	2	2	2	1	2	2	1	3	....	85, 86
12	....	2	....	....	14	....	....	1	....	1	....	2	1	2	2	....	1	2	1	1	1	....	
7	....	....	....	....	7	....	....	....	....	1	....	1	....	....	....	2	....	....	1	....	2	....	
3	3	3	4	1	14	2	....	....	....	....	1	....	1	....	2	....	....	1	2	1	2	1	88
2	1	2	3	1	9	1	....	....	....	....	1	....	1	....	2	....	....	1	....	1	1	1	
1	2	1	1	....	5	1	....	....	....	....	....	....	....	....	....	....	....	....	2	....	1	....	
9	....	....	1	2	12	4	1	....	....	....	....	....	1	....	....	1	1	....	1	....	....	....	
7	....	....	1	1	9	3	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	
2	....	....	....	1	3	1	....	....	....	....	....	....	....	....	....	1	1	....	1	....	....	....	
1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	....	....	89
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	....	....	
288	72	19	7	3	389	5	2	1	3	....	1	4	4	3	2	....	5	9	11	14	33	....	90
162	35	7	5	1	210	2	2	....	1	....	1	1	1	2	1	....	2	3	3	6	10	....	
126	37	12	2	2	179	3	....	1	2	....	....	3	3	1	1	....	3	6	8	8	23	....	
11	3	1	1	....	16	3	1	7	2	6	4	5	6	7	8	13	23	42	49	63	68	3	91
8	3	1	....	....	12	2	....	1	1	2	2	2	4	2	3	4	8	23	22	26	31	1	
3	....	....	1	....	4	1	1	6	1	4	2	3	2	5	5	9	15	19	27	37	37	2	

Table III.—Continued.—Causes of death in Michigan, by months,

Classification No.	Causes of death, 1902.	Sex.	Total 1902.	Months of death, 1902. Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
92	Bronchopnenmonia..	Totals.	502	64	43	54	65	55	33	19	16	28	31	41	53
		Males..	283	33	27	32	41	31	16	12	8	16	18	18	31
		Fem...	219	31	16	22	24	24	17	7	8	12	13	23	22
93	Pneumonia.....	Totals.	2,035	288	301	290	272	218	109	72	61	79	95	141	209
		Males..	1,189	154	151	159	173	125	65	39	36	39	51	81	116
		Fem...	946	134	150	131	99	93	44	33	25	40	44	60	93
94	Pleurisy.....	Totals.	104	12	10	8	18	8	5	6	8	9	7	7	6
		Males..	62	7	6	4	8	6	3	2	6	6	5	5	4
		Fem...	42	5	4	4	10	2	2	4	2	3	2	2	2
95	Congestion of lungs.	Totals.	192	20	22	19	19	15	8	9	13	13	18	21	15
		Males..	108	10	16	8	13	7	5	6	8	6	9	13	7
		Fem...	84	10	6	11	6	8	3	3	5	7	9	8	8
96	Gangrene of lungs...	Totals.	12	1	2	2	1	1	1	2	1	.....	.....	.....	1
		Males..	7	.....	.....	2	1	1	1	2	.....	.....	.....	.....	.....
		Fem...	5	1	2	.....	.....	.....	.....	.....	1	.....	.....	.....	1
97-98	Asthma and emphysema.....	Totals.	105	11	9	12	12	5	6	7	1	14	9	11	8
		Males..	57	6	5	5	6	3	3	7	1	6	6	3	6
		Fem...	48	5	4	7	6	2	3	.....	.....	8	3	8	2
99	Hemorrhage of lungs	Totals.	36	4	3	4	6	4	4	3	.....	2	.....	2	4
		Males..	26	2	2	4	4	3	3	2	.....	2	.....	1	3
		Fem...	10	2	1	.....	2	1	1	1	.....	.....	.....	1	1
	Other diseases of respiratory organs...	Totals.	91	13	6	15	7	9	4	6	9	2	3	7	10
		Males..	54	10	3	8	4	3	3	3	6	2	2	6	4
		Fem...	37	3	3	7	3	6	1	3	3	.....	1	1	6
100	Diseases of the mouth.....	Totals.	22	.....	2	4	3	2	1	3	2	4	.....	1	.....
		Males..	13	.....	2	1	1	1	.....	3	1	3	.....	1	.....
		Fem...	9	.....	.....	3	2	1	1	.....	1	1	.....	.....	.....
101	Tonsilitis.....	Totals.	22	1	3	3	2	3	.....	1	2	.....	1	5	1
		Males..	12	.....	2	3	2	1	.....	1	1	.....	.....	2	.....
		Fem...	10	1	1	.....	.....	2	.....	.....	1	.....	1	3	1
	Other diseases of pharynx.....	Totals.	36	4	.....	5	3	1	2	1	1	4	5	4	6
		Males..	25	2	.....	5	3	1	2	1	1	2	3	1	4
		Fem...	11	2	.....	.....	.....	.....	.....	.....	.....	2	2	3	2
103	Ulcer of stomach....	Totals.	76	10	8	5	10	4	6	5	4	5	9	4	6
		Males..	44	6	2	4	7	2	4	4	1	4	5	3	2
		Fem...	32	4	6	1	3	2	2	1	3	1	4	1	4
104	Gastritis.....	Totals.	222	22	12	24	27	20	24	11	21	13	16	14	18
		Males..	108	10	7	14	12	8	9	5	12	7	9	9	6
		Fem...	114	12	5	10	15	12	15	6	9	6	7	5	12
	Other diseases of stomach.....	Totals.	267	22	13	18	26	34	21	19	19	24	23	24	24
		Males..	151	13	10	11	16	20	9	9	10	13	12	15	13
		Fem...	116	9	3	7	10	14	12	10	9	11	11	9	11
	Dentition.....	Totals.	4	1	.....	.....	.....	.....	.....	1	.....	2	.....	.....	.....
		Males..	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
		Fem...	3	1	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....
105	Diarrhea and enteritis (under 2 years)	Totals.	1,400	42	40	44	49	63	61	195	326	333	137	61	40
		Males..	777	27	18	26	20	34	32	96	179	191	86	40	28
		Fem...	623	15	22	18	29	29	29	99	147	142	51	21	21
106	Diarrhea and enteritis (over 2 years)	Totals.	457	24	34	30	21	33	27	49	66	68	53	31	21
		Males..	216	12	12	20	8	14	10	27	30	29	28	14	12
		Fem...	241	12	22	10	13	19	17	22	36	39	25	17	9

ages, and sex, during the year 1902. (Stillbirths excluded.)

Ages in years under five.					Ages by five-year periods.																	Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.	
209	78	28	11	7	333	16	3	5	3	5	5	3	5	4	4	13	21	16	19	21	25	1	92
125	48	15	8	5	201	9	1	3	2	3	3	2	3	3	3	3	10	8	5	12	12	..	
84	30	13	3	2	132	7	2	2	1	2	2	1	2	1	1	10	11	8	14	9	13	1	
457	147	55	27	24	710	55	50	66	68	54	54	82	75	112	106	86	101	125	119	119	147	6	93
260	76	25	14	12	387	30	21	36	39	40	32	56	53	76	69	57	60	59	52	50	66	6	
197	71	30	13	12	323	25	29	30	29	14	22	26	22	36	37	29	41	66	67	69	81	..	
1	4	2	1	1	9	3	...	10	8	9	6	6	8	6	6	2	7	9	8	2	5	..	94
1	2	1	1	1	6	3	...	6	6	4	5	3	4	4	5	2	4	6	4	...	...	..	
...	2	1	...	...	3	...	...	4	2	5	1	3	4	2	1	...	3	3	4	2	5	..	
71	7	2	3	1	84	3	1	4	6	5	2	3	4	3	5	6	10	13	11	14	17	1	95
46	3	1	1	1	52	1	...	2	5	4	...	1	1	3	5	2	5	4	6	8	9	..	
25	4	1	2	...	32	2	1	2	1	1	2	2	3	...	...	4	5	9	5	6	8	1	
...	...	...	...	...	...	...	...	...	3	1	2	1	...	1	1	1	...	1	...	1	...	..	96
...	...	...	...	...	...	...	...	...	1	1	...	1	...	...	1	1	...	1	...	1	...	..	
...	...	...	...	...	...	...	...	...	2	...	2	...	...	1	...	...	...	...	...	...	...	..	
2	...	...	...	...	2	...	...	3	...	...	1	1	6	5	8	8	11	14	18	13	14	1	97.
...	...	...	...	...	...	...	...	2	...	...	...	1	3	3	8	4	5	4	8	10	8	1	
2	...	...	...	...	2	...	...	1	...	...	1	...	3	2	...	4	6	10	10	3	6	..	98
5	...	...	...	...	5	2	1	...	1	...	4	2	3	1	2	3	3	2	4	1	2	..	99
4	...	...	...	...	4	1	1	...	1	...	3	2	2	1	2	1	2	2	2	1	1	..	
1	...	...	...	...	1	1	...	...	...	...	1	...	1	...	...	2	1	...	2	...	1	..	
16	...	1	...	...	17	2	...	5	6	9	2	3	5	7	4	3	3	7	6	5	7	..	
8	...	...	...	...	8	...	...	2	3	4	...	3	5	6	4	2	2	5	3	4	3	..	
8	...	1	...	...	9	2	...	3	3	5	2	...	...	1	...	1	1	2	3	1	4	..	
14	1	1	...	1	17	2	...	...	...	...	...	...	...	1	...	...	...	1	...	1	...	..	100
8	...	1	...	1	10	1	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	..	
6	1	...	...	...	7	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	..	
4	1	1	2	1	9	3	...	4	1	2	...	2	1	...	...	...	...	...	...	...	...	..	101
4	...	1	2	1	8	...	...	...	1	1	...	1	1	...	...	...	...	...	...	...	...	..	
...	1	...	...	...	1	3	...	4	...	1	...	1	...	...	...	...	...	...	...	...	...	..	
5	2	3	1	...	11	...	2	1	...	1	4	...	2	...	1	2	...	2	5	2	3	..	
4	1	2	...	...	7	...	1	1	...	1	2	...	1	...	...	2	...	2	5	2	1	..	
1	1	1	1	...	4	...	1	...	...	...	2	...	1	...	1	...	...	...	...	...	2	..	
1	1	...	1	...	3	...	...	...	1	3	6	3	6	6	6	10	4	11	4	7	6	..	103
1	...	...	1	...	2	...	...	...	1	2	2	1	3	4	2	6	3	8	3	4	3	..	
...	1	...	...	...	1	...	...	...	...	1	4	2	3	2	4	4	1	3	1	3	3	..	
57	5	1	3	4	70	3	2	2	4	3	4	4	4	9	9	9	15	18	17	27	21	1	104
32	2	...	1	1	36	2	2	...	4	1	2	2	2	3	4	6	8	3	11	11	10	1	
25	3	1	2	3	34	1	...	2	...	2	2	2	2	6	5	3	7	15	6	16	11	..	
99	10	3	...	...	112	...	1	...	5	4	3	2	8	6	11	14	11	12	18	21	38	1	
56	7	1	...	...	64	...	1	...	2	3	...	1	6	3	6	10	9	6	9	12	18	1	
43	3	2	...	...	48	...	...	...	3	1	3	1	2	3	5	4	2	6	9	9	20	..	
1	3	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	
...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	
1	2	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	
1,169	230	...	...	...	1,399	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	105
649	127	...	...	...	776	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
520	103	...	...	...	623	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	
...	...	85	27	16	128	15	11	13	14	10	10	12	9	10	16	17	29	32	39	40	49	3	106
...	...	38	10	9	57	5	8	5	7	4	3	8	4	7	7	11	10	14	19	19	27	1	
...	...	47	17	7	71	10	3	8	7	6	7	4	5	3	9	6	19	18	20	21	22	2	

Table III.—Continued.—Causes of death in Michigan, by months,

Classification No.	Causes of death, 1902.	Sex.	Total deaths, 1902.	Months of death, 1902.											
				Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
108	Hernia	Totals	96	5	18	5	9	3	7	6	11	9	5	10	8
		Males	56	4	12	3	6	2	3	5	6	4	3	4	4
		Fem.	40	1	6	2	3	1	4	1	5	5	2	6	4
	Obstruction of intestines	Totals	218	17	11	21	17	17	21	21	13	21	19	18	22
		Males	115	6	7	7	13	10	14	9	9	10	10	9	11
		Fem.	103	11	4	14	4	7	7	12	4	11	9	9	11
107, 109	Other diseases of intestines	Totals	91	5	5	3	5	7	7	6	17	10	11	7	8
		Males	46	3	4	1	3	4	3	2	7	6	7	3	3
		Fem.	45	2	1	2	2	3	4	4	10	4	4	4	5
110	Acute yellow atrophy of liver	Totals	18	1	1	2	3	2	1	1	.....	1	3	2	1
		Males	6	1	.....	.....	1	.....	.....	1	.....	1	2	.....	.....
		Fem.	12	.....	1	2	2	2	1	.....	.....	.....	1	2	1
111	Hydatid tumors of liver	Totals	3	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....
		Males	2	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
		Fem.	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
112	Cirrhosis of liver	Totals	234	21	22	17	26	24	8	18	25	21	18	22	12
		Males	158	13	19	13	17	19	7	14	16	12	14	8	6
		Fem.	76	8	3	4	9	5	1	4	9	9	4	14	6
113	Biliary calculi	Totals	67	7	9	4	8	5	4	3	4	9	1	3	10
		Males	28	3	2	1	3	3	2	1	1	4	1	2	5
		Fem.	39	4	7	3	5	2	2	2	3	5	.....	1	5
114	Other diseases of liver	Totals	242	27	14	18	17	21	24	21	20	17	22	17	24
		Males	117	16	3	9	9	10	11	12	9	6	12	10	10
		Fem.	125	11	11	9	8	11	13	9	11	11	10	7	14
115	Diseases of spleen	Totals	11	1	.....	2	1	.....	2	.....	4	.....	.....	.....	1
		Males	4	.....	.....	1	.....	.....	1	.....	2	.....	.....	.....	.....
		Fem.	7	1	.....	1	1	.....	1	.....	2	.....	.....	.....	1
116	Peritonitis	Totals	246	19	20	34	20	23	14	26	26	10	17	12	25
		Males	98	11	.....	18	6	8	7	7	11	4	7	3	9
		Fem.	148	8	13	16	14	15	7	19	15	6	10	9	16
118	Appendicitis	Totals	273	20	20	30	16	17	24	30	37	19	22	21	17
		Males	163	12	.....	14	8	9	13	18	26	15	9	13	10
		Fem.	110	8	.....	16	8	8	11	12	11	4	13	8	7
117	Other diseases of digestive system	Totals	6	2	.....	1	.....	.....	.....	1	.....	.....	1	.....	1
		Males	4	2	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
		Fem.	2	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....
119	Acute nephritis	Totals	89	12	14	9	13	5	6	4	2	4	6	6	8
		Males	43	7	10	3	3	1	4	.....	.....	3	4	2	6
		Fem.	46	5	4	6	10	4	2	4	2	1	2	4	2
120	Bright's disease	Totals	1,198	109	97	129	114	106	99	94	85	82	94	82	107
		Males	721	57	51	74	70	64	63	62	56	53	50	50	71
		Fem.	477	52	46	55	44	42	36	32	29	29	44	32	36
121	Other diseases of kidneys	Totals	112	14	12	14	4	9	7	8	8	6	6	10	14
		Males	63	8	8	8	3	7	3	4	5	3	4	3	7
		Fem.	49	6	4	6	1	2	4	4	3	3	2	7	7
122	Calculi of urinary tract	Totals	23	3	3	1	2	2	1	3	1	2	2	2	1
		Males	17	2	3	1	1	.....	1	2	1	2	2	2	.....
		Fem.	6	1	.....	.....	1	2	.....	1	.....	.....	.....	.....	1
123	Diseases of bladder	Totals	126	14	16	14	11	6	7	5	5	12	8	13	15
		Males	109	13	14	14	10	5	7	5	5	9	8	9	10
		Fem.	17	1	2	.....	1	1	.....	.....	.....	3	.....	4	5
129	Uterine tumor	Totals	55	5	6	7	6	7	3	7	1	4	3	2	4
		Males	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem.	55	5	6	7	6	7	3	7	1	4	3	2	4

excluded.)

												4.	65 to 69.	70 to 74.	75 to 79.	80 to +	Unknown.	Classification No.
											[illegible]	10	12	11	9	13	1	
											3	6	6	7	5	8	1	
											3	4	6	4	4	5	..	108
											9	13	16	16	9	12	..	
											6	10	9	9	6	6	..	
											3	3	7	7	3	6	..	
										1	3	5	4	6	5	9	..	
										1	1	4	3	1	3	2	..	107, 109
									...	...	2	1	1	5	2	7	..	
									1	2	2	...	1	1	...	1	..	
									1	...	2	...	1	...	...	...	..	110
									...	2	...	...	...	1	...	1	..	
								1	...	...	...	1	...	...	...	...	..	
								...	...	...	...	1	...	...	...	...	..	111
								1	...	...	...	...	...	...	...	...	..	
								8	13	28	34	27	33	35	14	13	..	
								6	8	22	25	18	26	19	11	9	..	112
							4	2	5	6	9	9	7	16	3	4	..	
							2	8	4	11	4	5	8	5	5	3	..	
							.	1	2	6	1	2	3	4	1	2	..	113
							2	7	2	5	3	3	5	1	4	1	..	
						10	10	9	16	20	21	34	23	23	22	19	..	
						[illegible]	4	4	9	11	10	16	10	12	12	9	..	114
						4	6	5	7	9	11	18	13	11	10	10	..	
					1	...	...	1	...	1	1	...	...	2	2	...	..	
					1	...	...	1	...	...	...	...	...	1	...	...	..	115
					...	...	...	...	...	1	1	...	...	1	2	...	..	
					21	27	18	16	13	6	8	8	11	5	8	5	1	
					3	8	4	6	3	2	5	2	7	3	4	3	1	116
				[illegible]	18	19	14	10	10	4	3	6	4	2	4	2	..	
				38	22	23	13	12	13	8	7	4	4	2	3	1	2	
				24	14	16	8	8	9	5	3	3	1	...	1	...	1	118
			..	14	8	7	5	4	4	3	4	1	3	2	2	1	1	
			1	...	...	...	1	...	1	...	...	...	...	...	1	1	..	
			...	...	...	...	1	...	...	...	...	...	...	...	1	1	..	117
			1	...	...	...	...	...	1	...	...	...	...	...	...	...	..	
		[illegible]	4	3	8	3	4	2	2	...	5	6	8	2	6	7	..	
		[illegible]	1	2	5	...	2	1	...	...	1	2	4	...	3	4	..	119
		5	3	1	3	3	2	1	2	...	4	4	4	2	3	3	..	
	[illegible]	18	22	24	32	41	46	47	58	80	103	129	161	140	140	113	..	
	[illegible]	6	12	13	12	15	14	23	35	53	57	85	100	91	100	76	..	120
	[illegible]	12	10	11	20	26	32	24	23	27	46	44	61	49	40	37	..	
	...	...	3	1	6	6	5	6	6	4	10	7	14	12	10	12	1	
[illegible]	...	...	2	...	4	2	3	2	2	4	4	2	7	10	7	9	1	121
5	...	...	1	1	2	4	2	4	4	...	6	5	7	2	3	3	..	
	...	...	...	1	...	1	2	2	2	...	...	3	5	4	2	1	..	
.	...	...	...	1	...	1	1	1	1	...	...	1	4	4	2	1	..	122
...	...	...	...	...	...	...	1	1	1	...	...	2	1	...	...	...	..	
2	...	...	1	...	...	...	2	2	2	1	5	2	17	28	30	34	..	
1	...	...	1	...	...	...	...	2	1	1	3	1	15	25	27	32	..	123
1	...	...	...	...	...	...	2	...	1	...	2	1	2	3	3	2	..	
...	...	...	...	1	3	6	9	11	9	2	1	4	3	2	2	2	..	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	129
...	...	...	...	1	3	6	9	11	9	2	1	4	3	2	2	2	..	

Table III.—Continued.—Causes of death in Michigan, by months.

Classification No.	Causes of death, 1902.	Sex.	Total deaths, 1902.	Months of death, 1902.											
				Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
127, 128, 130	Other diseases of uterus	Totals.	63	4	7	6	5	11	3	4	6	2	5	4	6
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem.	63	4	7	6	5	11	3	4	6	2	5	4	6
131	Ovarian tumor	Totals.	44	2	.....	5	8	11	4	2	2	3	.....	2	5
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem.	44	2	.....	5	8	11	4	2	2	3	.....	2	5
124–126, 132, 133	Diseases of tubes	Totals.	16	1	.....	7	2	1	.....	1	1	1	1	.....	1
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem.	16	1	.....	7	2	1	.....	1	1	1	1	.....	1
	Other diseases of genito-urinary system	Totals.	144	16	10	17	16	11	12	12	9	13	7	9	12
		Males.	101	11	5	10	11	8	11	8	7	7	5	6	12
		Fem.	43	5	5	7	5	3	1	4	2	6	2	3	.....
137	Puerperal septicemia	Totals.	213	23	21	21	29	24	15	15	11	15	14	14	11
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem.	213	23	21	21	29	24	15	15	11	15	14	14	11
138	Puerperal convulsions	Totals.	83	4	12	10	10	10	11	7	7	4	4	3	1
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem.	83	4	12	10	10	10	11	7	7	4	4	3	1
134–136, 139–141	Other causes incident to childbirth	Totals.	172	10	17	13	18	13	13	11	16	11	18	15	17
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem.	172	10	17	13	18	13	13	11	16	11	18	15	17
142	Gangrene	Totals.	89	9	8	11	10	7	9	9	5	3	7	6	5
		Males.	49	6	2	8	8	2	3	8	3	1	4	2	2
		Fem.	40	3	6	3	2	5	6	1	2	2	3	4	3
143	Carbuncle	Totals.	15	2	1	1	1	3	.....	2	1	1	.....	3	.....
		Males.	11	2	1	.....	1	2	.....	2	.....	1	.....	2	.....
		Fem.	4	.....	.....	1	.....	1	.....	.....	1	.....	.....	1	.....
144	Abscess	Totals.	34	5	2	2	5	3	.....	4	1	2	4	4	2
		Males.	20	5	2	1	1	1	.....	4	1	1	1	2	1
		Fem.	14	.....	.....	1	4	2	.....	.....	.....	1	3	2	1
145	Other diseases of skin	Totals.	29	3	1	2	4	3	3	1	3	.....	4	3	2
		Males.	15	.....	1	2	2	2	2	.....	2	.....	1	2	1
		Fem.	14	3	.....	.....	2	1	1	1	1	.....	3	1	1
146	Diseases of bones	Totals.	66	8	6	8	4	3	7	5	6	6	6	6	1
		Males.	40	3	5	5	3	1	4	2	3	3	5	6	.....
		Fem.	26	5	1	3	1	2	3	3	3	3	1	.....	1
147	Diseases of joints	Totals.	3	.....	.....	.....	.....	1	.....	1	.....	.....	.....	1	.....
		Males.	3	.....	.....	.....	.....	1	.....	1	.....	.....	.....	1	.....
		Fem.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Hydrocephalus	Totals.	54	2	7	8	5	2	3	5	6	5	7	2	2
		Males.	30	1	4	3	3	1	1	4	4	2	3	2	2
		Fem.	24	1	3	5	2	1	2	1	2	3	4	.....	.....
150	Congenital malformation of heart (cyanosis)	Totals.	107	9	8	10	11	13	9	9	8	7	6	7	10
		Males.	64	5	5	7	8	10	2	5	4	6	2	5	5
		Fem.	43	4	3	3	3	3	7	4	4	1	4	2	5
	Other congenital malformations	Totals.	184	14	17	22	12	14	20	11	14	19	12	15	14
		Males.	94	7	6	11	4	8	11	6	6	11	7	7	10
		Fem.	90	7	11	11	8	6	9	5	8	8	5	8	4
151, 152, 153	Premature birth	Totals.	608	57	45	60	49	66	48	56	50	38	50	44	45
		Males.	335	33	27	31	20	36	30	30	33	18	25	28	24
		Fem.	273	24	18	29	29	30	18	26	17	20	25	16	21
	Congenital debility	Totals.	685	67	57	62	65	51	47	66	51	57	58	45	59
		Males.	405	50	31	37	42	22	34	39	25	30	37	28	30
		Fem.	280	17	26	25	23	29	13	27	26	27	21	17	29

ages and sex, during the year 1902. (Stillbirths excluded.)

Ages in years under five.					Ages by five-year period.																	Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.	
.....	....	...	...	...	.....	...	1	5	5	9	17	3	12	4	4	2	....	....	....	1	....	..	127,
.....	....	...	...	...	.....	...	...	...	...	...	...	...	...	...	...	...	....	....	....	...	....	..	128,
.....	....	...	...	...	.....	...	1	5	5	9	17	3	12	4	4	2	....	....	....	1	....	..	130
.....	....	...	...	...	.....	...	1	2	1	4	10	4	3	4	5	3	4	2	....	1	....	..	
.....	....	...	...	...	.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....	..	131
.....	....	...	...	...	.....	...	1	2	1	4	10	4	3	4	5	3	4	2	....	1	....	..	
.....	....	...	...	...	.....	...	...	2	8	1	....	1	2	....	....	2	....	....	....	....	....	..	
.....	....	...	...	...	.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....	..	124
.....	....	...	...	...	.....	...	...	2	8	1	....	1	2	....	....	2	....	....	....	....	....	..	126
4	....	...	...	...	4	...	...	1	7	13	8	13	4	2	6	2	....	6	27	28	23	..	132
4	....	...	...	...	4	...	...	...	...	...	2	2	2	...	5	2	....	6	27	28	23	..	133
.....	....	...	...	...	.....	...	...	1	7	13	6	11	2	2	1	....	....	....	....	....	....	..	
.....	....	...	...	...	.....	...	...	20	53	48	43	36	10	2	....	....	....	....	....	....	....	1	
.....	....	...	...	...	.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....	..	137
.....	....	...	...	...	.....	...	...	20	53	48	43	36	10	2	....	....	....	....	....	....	....	1	
.....	....	...	...	...	.....	...	...	15	18	14	18	7	10	1	....	....	....	....	....	....	....	..	
.....	....	...	...	...	.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....	..	138
.....	....	...	...	...	.....	...	...	15	18	14	18	7	10	1	....	....	....	....	....	....	....	..	
.....	....	...	...	...	.....	...	...	13	29	34	29	41	22	4	....	....	....	....	....	....	....	..	134,
.....	....	...	...	...	.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....	..	136,
.....	....	...	...	...	.....	...	...	13	29	34	29	41	22	4	....	....	....	....	....	....	....	..	139,
3	....	1	...	...	4	...	...	....	1	....	....	....	....	3	4	3	4	8	16	16	30	..	141
1	....	1	...	...	2	...	...	....	...	....	....	....	....	1	1	2	1	4	11	9	18	..	
2	....	...	...	...	2	...	...	....	1	....	....	....	....	2	3	1	3	4	5	7	12	..	142
1	....	...	...	...	1	...	...	....	1	....	....	....	1	2	1	1	2	3	2	1	....	..	
.....	....	...	...	...	.....	...	...	....	1	....	....	....	1	2	1	1	2	2	....	1	....	..	143
1	....	...	...	...	1	...	...	....	...	....	....	....	....	....	....	....	....	1	2	....	....	..	
10	1	...	1	...	12	1	...	....	3	1	2	1	2	....	....	4	1	1	1	1	3	1	
3	....	...	...	...	3	1	...	....	2	1	2	1	1	....	....	2	1	1	...	1	3	1	144
7	1	...	1	...	9	...	...	....	1	....	....	....	1	....	....	2	....	....	1	....	....	..	
20	1	...	...	...	21	...	...	....	...	....	....	....	1	....	....	1	....	....	3	1	2	..	
9	1	...	...	...	10	...	...	....	...	....	....	....	....	....	....	1	....	....	1	1	2	..	145
11	....	...	...	...	11	...	...	....	...	....	....	....	1	....	....	....	....	....	2	....	....	..	
11	8	1	1	...	21	8	8	2	2	1	2	3	1	2	1	4	1	8	1	1	....	..	
7	4	...	1	...	12	5	3	2	....	....	2	2	1	....	1	4	1	5	1	1	....	..	146
4	4	1	...	...	9	3	5	....	2	1	....	1	....	2	....	....	....	3	....	....	....	..	
.....	....	...	...	...	.....	...	...	....	....	....	....	....	1	....	1	....	1	....	....	....	....	..	
.....	....	...	...	...	.....	...	...	....	....	....	....	....	1	....	1	....	1	....	....	....	....	..	147
.....	....	...	...	...	.....	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
44	4	2	...	...	50	...	1	1	....	....	....	....	....	1	....	....	1	....	....	....	....	..	
25	1	1	...	...	27	...	1	1	....	....	....	....	....	....	....	....	1	....	....	....	....	..	
19	3	1	...	...	23	...	...	....	....	....	....	....	....	1	....	....	....	....	....	....	....	..	
100	2	...	...	...	102	2	2	....	1	....	....	....	....	....	....	....	....	....	....	....	....	..	
59	1	...	...	...	60	1	2	....	1	....	....	....	....	....	....	....	....	....	....	....	....	..	150
41	1	...	...	...	42	1	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
174	2	3	...	...	179	1	1	....	1	1	....	1	....	....	....	....	....	....	....	....	....	..	
89	....	2	...	...	91	1	...	....	....	1	....	1	....	....	....	....	....	....	....	....	....	..	
85	2	1	...	...	88	...	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	..	
608	....	...	...	...	608	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
335	....	...	...	...	335	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	151
273	....	...	...	...	273	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	152
685	....	...	...	...	685	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	153
405	....	...	...	...	405	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
280	....	...	...	...	280	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	

Table III.—Continued.—Causes of d

Classification No.	Causes of death, 1902.	Sex.	Total deaths, 1902.	Months					
				Jan.	Feb.	Mar.	April.	May.	Ju
127, 128, 130	Other diseases of uterus	Totals.	63	4	7	6	5	11	
		Males.	.....	.....	.....	.....	.....	.....	...
		Fem.	63	4	7	6	5	11	
131	Ovarian tumor	Totals.	44	2	.....	5	8	11	
		Males.	.....	.....	.....	.....	.....	.....	...
		Fem.	44	2	.....	5	8	11	
124–126, 132, 133	Diseases of tubes	Totals.	16	1	.....	7	2	1	...
		Males.	.....	.....	.....	.....	.....	.....	...
		Fem.	16	1	.....	7	2	1	...
	Other diseases of genito-urinary system	Totals.	144	16	10	17	16	11	
		Males.	101	11	5	10	11	8	
		Fem.	43	5	5	7	5	3	
137	Puerperal septicemia	Totals.	213	23	21	21	29	24	
		Males.	.....	.....	.....	.....	.....	.....	...
		Fem.	213	23	21	21	29	24	
138	Puerperal convulsions	Totals.	83	4	12	10	10	10	
		Males.	.....	.....	.....	.....	.....	.....	...
		Fem.	83	4	12	10	10	10	
134–136, 139–141	Other causes incident to childbirth	Totals.	172	10	17	13	18	13	
		Males.	.....	.....	.....	.....	.....	.....	...
		Fem.	172	10	17	13	18	13	
142	Gangrene	Totals.	89	9	8	11	10	7	
		Males.	49	6	2	8	8	2	
		Fem.	40	3	6	3	2	5	
143	Carbuncle	Totals.	15	2	1	1	1	3	...
		Males.	11	2	1	.....	1	2	...
		Fem.	4	.....	.....	1	.....	1	...
144	Abscess	Totals.	34	5	2	2	5	3	...
		Males.	20	5	2	1	1	1	..
		Fem.	14	.....	.....	1	4	2	..
145	Other diseases of skin	Totals.	29	3	1	2	4	3	
		Males.	15	.....	1	2	2	2	
		Fem.	14	3	.....	.....	2	1	
146	Diseases of bones	Totals.	66	8	6	8	4	3	
		Males.	40	3	5	5	3	1	
		Fem.	26	5	1	3	1	2	
147	Diseases of joints	Totals.	3	.....	.....	.....	.....	1	.
		Males.	3	.....	.....	.....	.....	1	.
		Fem.	.....	.....	.....	.....	.....	.....	.
150	Hydrocephalus	Totals.	54	2	7	8	5	2	
		Males.	30	1	4	3	3	1	
		Fem.	24	1	3	5	2	1	
	Congenital malformation of heart (cyanosis)	Totals.	107	9	8	10	11	13	
		Males.	64	5	5	7	8	10	
		Fem.	43	4	3	3	3	3	
	Other congenital malformations	Totals.	184	14	17	22	12	14	
		Males.	94	7	6	11	4	8	
		Fem.	90	7	11	11	8	6	
151, 152, 153	Premature birth	Totals.	608	57	45	60	49	66	
		Males.	335	33	27	31	20	36	
		Fem.	273	24	18	29	29	30	
	Congenital debility	Totals.	685	67	57	62	65	5	
		Males.	405	50	31	37	42	2	
		Fem.	280	17	26	25	23	2	

ages and sex, during the year 1902. (Stillbirths excluded.)

Ages in years under five.					Ages by five-year periods.																		
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.	Classification No.
																	11	36	119	199	632	5	
																	5	20	55	97	314	3	154
																	6	16	64	102	318	2	
								12	22	23	18	23	27	28	17	19	19	14	9	2	8	3	
								4	10	19	11	21	22	23	13	14	14	12	7	2	8	3	
								8	12	4	7	2	5	5	4	5	5	2	2				
								10	13	7	4	7	4	7	5	6	7	4	1		1	1	
								3	4	4	2	6	3	5	5	4	5	4			1	1	155
								7	9	3	2	1	1	2		2	2		1				
								1		1					1								
										1													156
								1							1								
									1	1	2	3	9	5	4	8	7	3	2		2		
									1	1	1	3	8	3	3	5	6	3	2		2		157
											1		1	2	1	3	1						
									1	2	3	1	3	3	2		4	1	2		2		
									1	1	1	1	2	3			2	1	2		2		158
										1	2		1		2		2						
								1	6	6	4	5	4	8	3	2	1	4	1		2	1	
								1	3	6	4	5	4	8	3	2	1	4	1		2	1	159
									3														
									1	1	2	2	3	2	2	1			1	1	1		
									1	1	2	2	2	2	2	1				1	1		160
													1						1				
													1			1			1				
													1			1			1				161
												2											
												1											162
												1											
										5	3	3	3	3		1		2	1	1		1	
										5	1	3	2	2		1			1	1		1	163
											2		1	1				2					
122	48	38	33	31	272	99	79	140	169	145	95	117	115	90	83	73	67	62	70	61	100	24	
68	31	19	19	20	157	68	66	121	147	134	89	103	102	79	70	60	50	45	48	34	49	22	
54	17	19	14	11	115	31	13	19	22	11	6	14	13	11	13	13	17	17	22	27	51	2	
3	1	1	1		6	3	4	12	13	15	13	10	12	11	11	11	9	11	20	19	51	2	
2			1		3	2	4	12	12	15	13	9	12	11	10	9	6	6	9	8	14	2	164,
1	1	1			3	1			1			1			1	2	3	5	11	11	37		165
8	16	19	22	12	77	22	3	7	9	2	3	5	4	3	4	3	1	3	2	4	4		
4	9	9	12	3	37	5			5	1	1	1	1	1	2				2	3	4		167
4	7	10	10	9	40	17	3	7	4	1	2	4	3	2	2	3	1	3		1			
2					2					1			1	2	1				1		1		
1					1					1				2	1				1				169
1					1								1								1		
1					1					1	1		1		2	1	3	2		1	1		
										1	1		1		1	1	3	2		1	1		170
1					1										1								
						2	4	2	2							2	2	1					
						1	3	2	2							2	1	1					(171)
						1	1										1						
2	8	7	3	4	24	27	31	43	43	23	3	14	10	3	9	7	7	7	2	1	3	8	
	7	3	1	3	14	21	27	41	38	20	3	14	10	3	9	7	7	6	1	1	3	7	172
2	1	4	2	1	10	6	4	2	5	3								1	1			1	

Table III.—Concluded.—Causes of death in Michigan, by months.

Classification No.	Causes of death, 1902.	Sex.	Total deaths, 1902.	Months of death, 1902. Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
174	Inhalation of poisonous gases	Totals	26	.....	6	4	2	2	.....	1	1	1	3	3	3
		Males	14	.....	1	2	2	.....	.....	1	1	1	2	1	3
		Fem.	12	.....	5	2	.....	2	.....	.....	.....	.....	1	2	.....
175	Other accidental poisons	Totals	89	7	3	9	5	3	6	13	7	6	8	14	8
		Males	60	5	2	5	4	2	5	10	5	4	3	11	4
		Fem.	29	2	1	4	1	1	1	3	2	2	5	3	4
	Accidental gunshot wounds	Totals	53	2	3	5	4	5	8	4	5	10	12	18	7
		Males	78	2	3	5	3	5	7	3	4	9	12	18	7
		Fem.	5	.....	.....	.....	1	.....	1	1	1	1	.....	.....	.....
	Injuries by machinery	Totals	42	2	1	2	5	1	5	2	8	2	3	2	9
		Males	40	2	1	2	4	1	5	2	7	2	3	2	9
		Fem.	2	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....
	Injuries in mines and quarries	Totals	106	15	9	10	5	8	8	10	9	11	6	10	5
		Males	106	15	9	10	5	8	8	10	9	11	6	10	5
		Fem.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
166	Railroad accidents and injuries	Totals	228	12	14	12	17	13	19	37	23	18	23	18	22
		Males	211	11	13	12	15	13	18	35	22	16	20	17	19
		Fem.	17	1	1	.....	2	.....	1	2	1	2	3	1	3
	Injuries by vehicles and horses	Totals	68	2	4	5	8	10	4	7	6	7	6	4	5
		Males	61	2	4	5	8	8	4	5	6	6	5	4	4
		Fem.	7	.....	.....	.....	.....	2	.....	2	.....	1	1	.....	1
	Injuries by electric cars	Totals	43	3	.....	1	3	5	4	4	1	7	7	3	5
		Males	36	2	.....	1	3	5	3	4	1	5	4	3	5
		Fem.	7	1	.....	.....	.....	.....	1	.....	.....	2	3	.....	.....
(166,) 168, [171] (176)	Other accidental injuries	Totals	380	34	30	24	34	27	35	34	29	29	38	31	35
		Males	291	23	23	17	25	25	22	24	21	25	31	26	29
		Fem.	89	11	7	7	9	2	13	10	8	4	7	5	6
	Suffocation	Totals	39	3	1	1	4	3	3	2	1	6	6	8	1
		Males	26	1	.....	1	3	3	2	1	1	5	3	5	1
		Fem.	13	2	1	.....	1	.....	1	1	.....	1	3	3	.....
176	Injuries at birth	Totals	65	3	5	8	5	4	7	6	3	6	6	6	6
		Males	39	3	3	6	3	3	5	2	3	2	3	3	3
		Fem.	26	.....	2	2	2	1	2	4	.....	4	3	3	3
(176)	Homicide	Totals	44	3	2	1	9	1	5	3	3	4	8	2	3
		Males	31	3	2	.....	4	1	5	2	3	2	6	1	2
		Fem.	13	.....	.....	1	5	.....	.....	1	.....	2	2	1	1
177	"Dropsy"	Totals	143	10	19	13	12	19	9	5	14	8	8	13	13
		Males	76	5	7	7	4	14	5	3	11	5	2	6	7
		Fem.	67	5	12	6	8	5	4	2	3	3	6	7	6
	"Heart failure"	Totals	123	12	13	14	5	6	6	17	3	11	11	10	15
		Males	58	3	7	8	2	4	5	8	2	3	5	5	6
		Fem.	65	9	6	6	3	2	1	9	1	8	6	5	9
178, 179	Other ill-defined diseases	Totals	383	25	24	34	35	32	30	37	35	28	36	36	31
		Males	208	15	10	15	23	17	18	23	19	12	17	19	20
		Fem.	175	10	14	19	12	15	12	14	16	16	19	17	11
	Unknown or unspecified	Totals	283	26	18	27	22	16	16	26	22	30	19	26	35
		Males	157	14	11	14	11	7	11	18	11	17	9	14	20
		Fem.	126	12	7	13	11	9	5	8	11	13	10	12	15

ages and sex, during the year 1902. (Stillbirths excluded.)

Ages in years under five.					Ages by five-year periods.																		Classification No.
0.	1.	2.	3.	4.	0* to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 to +	Unknown.	
.....	.....	.....	.....	.....	.....	2	1	.....	2	3	1	3	.....	3	.....	1	2	3	3	2	.....	..	
.....	.....	.....	.....	.....	.....	1	1	.....	.....	2	1	3	.....	2	.....	.....	1	1	2	.....	.....	..	174
.....	.....	.....	.....	.....	.....	1	.....	.....	2	1	.....	.....	.....	1	.....	1	1	2	1	2	.....	..	
7	11	6	2	3	29	1	2	1	6	5	5	4	6	9	3	1	7	1	5	1	.....	3	
6	5	5	2	3	21	1	.....	.....	1	2	5	2	5	6	3	1	5	.....	5	1	.....	2	175
1	6	1	.....	.....	8	.....	2	1	5	3	.....	2	1	3	.....	.....	2	1	.....	.....	.....	1	
.....	.....	.....	2	2	4	5	9	21	8	6	5	7	1	4	3	2	5	.....	1	1	1	..	
.....	.....	.....	2	1	3	5	9	20	7	6	5	6	.....	4	3	2	5	.....	1	1	1	..	
.....	.....	.....	.....	1	1	.....	.....	1	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	..	
.....	.....	.....	.....	1	1	.....	2	7	12	2	4	3	5	2	3	1	.....	.....	.....	.....	.....	..	
.....	.....	.....	.....	1	1	.....	2	6	11	2	4	3	5	2	3	1	.....	.....	.....	.....	.....	..	
.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	
.....	.....	.....	.....	.....	.....	1	1	6	19	27	15	13	10	7	1	2	1	1	.....	.....	.....	2	
.....	.....	.....	.....	.....	.....	1	1	6	19	27	15	13	10	7	1	2	1	1	.....	.....	.....	2	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	
.....	2	.....	.....	2	4	4	9	13	19	26	16	26	24	18	17	15	5	9	8	4	4	7	166
.....	1	.....	.....	2	3	4	9	11	18	26	16	25	23	17	15	13	4	7	7	3	3	7	
.....	1	.....	.....	.....	1	.....	.....	2	1	.....	.....	1	1	1	2	2	1	2	1	1	1	..	
.....	.....	.....	1	1	2	9	3	5	4	4	3	4	6	6	4	6	3	3	2	2	1	1	
.....	.....	.....	1	1	2	9	3	3	4	4	3	4	6	4	3	6	1	3	2	2	1	1	
.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	2	1	.....	2	.....	.....	.....	.....	..	
.....	.....	2	.....	1	3	4	1	1	3	3	4	3	4	2	3	1	1	1	1	3	5	..	
.....	.....	.....	.....	1	1	4	1	1	3	3	3	2	4	2	3	.....	1	1	1	2	4	..	
.....	.....	2	.....	.....	2	.....	.....	.....	.....	.....	1	1	.....	.....	.....	1	.....	.....	.....	1	1	..	
15	8	2	2	4	31	16	9	22	27	27	20	23	28	20	21	20	20	19	24	23	29	1	(166)
9	7	1	.....	4	21	11	6	19	25	24	17	19	23	18	15	16	14	16	16	12	18	1	168,
6	1	1	2	.....	10	5	3	3	2	3	3	4	5	2	6	4	6	3	8	11	11	..	[171]
																							(176)
19	2	1	.....	1	23	3	.....	.....	2	.....	2	2	3	.....	1	.....	1	1	1	.....	.....	..	
7	2	1	.....	1	11	3	.....	.....	2	.....	2	2	2	.....	1	.....	1	1	1	.....	.....	..	
12	.....	.....	.....	.....	12	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	..	176
65	.....	.....	.....	.....	65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	
39	.....	.....	.....	.....	39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	
26	.....	.....	.....	.....	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	
.....	1	.....	1	.....	2	.....	1	3	8	2	2	7	6	1	6	1	.....	2	2	.....	.....	1	
.....	.....	.....	1	.....	1	.....	.....	2	5	2	.....	5	6	.....	5	1	.....	2	1	.....	.....	1	(176)
.....	1	.....	.....	.....	1	.....	1	1	3	.....	2	2	.....	1	1	.....	.....	.....	1	.....	.....	..	
1	2	.....	1	.....	4	2	.....	1	2	1	.....	5	4	1	10	9	13	15	26	24	26	..	
1	1	.....	1	.....	3	2	.....	1	2	1	.....	2	3	1	5	3	3	5	14	13	18	..	177
.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	3	1	.....	5	6	10	10	12	11	8	..	
21	1	1	.....	.....	23	.....	.....	1	5	.....	2	6	4	4	7	10	8	13	14	14	12	..	
9	1	.....	.....	.....	10	.....	.....	1	2	.....	.....	1	2	3	4	4	4	6	7	6	8	..	
12	.....	1	.....	.....	13	.....	.....	.....	3	.....	2	5	2	1	3	6	4	7	7	8	4	..	
151	20	7	3	4	185	5	2	2	2	4	3	11	7	3	7	14	14	17	25	29	51	2	
81	14	3	1	4	103	1	1	1	.....	1	2	5	3	1	4	6	6	9	18	12	33	2	178
70	6	4	2	.....	82	4	1	1	2	3	1	6	4	2	3	8	8	8	7	17	18	..	179
173	9	3	2	1	188	9	1	5	7	5	3	2	3	3	7	1	5	5	9	8	17	5	
97	4	.....	1	.....	102	6	.....	3	5	2	2	1	2	2	6	1	3	4	2	6	8	2	
76	5	3	1	1	86	3	1	2	2	3	1	1	1	1	1	.....	2	1	7	2	9	3	

Table IV.—Causes of death in Michigan, by counties,

Classification No.	Causes of death, 1902.	State.	Counties—Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.
	ALL CAUSES*	31,472	45	74	475	171	168	80	40	267	745	108	553	381	763	287	163	181
	I. General Diseases.																	
	(*A. Epidemic diseases.*)																	
1	Typhoid fever	584	..	2	4	....	9	..	..	3	16	....	10	4	6	6	1	1
	Typho-malarial fever	24	..	..	....	1	....	..	..	....	....	....	1	1	1	....	....	....
4	Malarial fever	89	..	..	4	....	1	1	..	1	3	....	....	....	3	1	....	2
5	Smallpox	42	..	..	....	2	1		1	....	....	1	....	....	....	....	....	2
6	Measles	238	..	2	1	....	....	..	..	4	1	1	3	4	4	1	....	....
7	Scarlet fever	277	..	1	....	1	2	..	..	1	6	1	2	1	2	1	1	3
8	Whooping cough	289	..	..	....	....	2	..	3	1	11	1	8	6	2	4	1	1
9	Diphtheria	396	..	1	....	9	....	..	..	....	4	....	1	2	35	2	1	..
	Croup	43	..	1	....	2	....	..	..	....	2	....	....	....	....	....	1	....
	Membranous croup	65	..	..	1	....	2	..	..	....	....	....	....	....	1	....	2	....
10	Influenza	335	1	..	10	2	4	..	..	4	1	1	4	13	5	3	2	2
13	Cholera nostras	36	..	..	....	....	1	..	..	....	1	....	2	1	1	....	....	....
14	Dysentery	136	..	..	4	....	2	..	..	1	2	..	5	3	3	2	....	....
18	Erysipelas	100	1	..	3	....	....	1	..	....	1	....	3	1	2	1	....	....
19	Chickenpox	6	..	..	....	....	....	..	..	....	....	....	....	....	....	....	....	....
	German measles	....	..	..	....	....	....	..	..	....	....	....	....	....	....	....	....	....
	Mumps	10	..	..	....	....	....	..	..	....	....	....	....	....	....	....	....	....
	(*B. Other General Diseases.*)																	
20	Septicemia	128	2	..	....	....	....	..	..	1	1	1	1	....	5	2	....	....
27	Tuberculosis of lungs	2,088	3	3	36	9	8	6	4	19	58	10	44	17	47	22	16	7
26	Tuberculosis of larynx	19	..	..	1	....	....	..	..	....	....	1	....	....	....	....	....	....
28	Tuberculous meningitis	105	..	2	2	....	....	..	1	1	1	1	2	....	2	1	....	....
29	Abdominal tuberculosis	114	..	..	3	1	....	..	..	1	....	....	1	1	2	1	....	....
30	Pott's disease	24	..	..	....	....	....	..	..	....	....	....	....	....	1	....	....	....
31	Tuberculous abscess	3	..	..	....	....	....	..	..	....	....	....	....	....	....	....	....	....
32	White swelling	18	..	..	....	....	....	..	..	....	....	....	....	....	....	....	1	....
33	Tuberculosis of other organs	37	..	..	2	....	....	..	..	....	....	....	....	....	....	....	....	....
34	General tuberculosis	37	..	..	....	1	....	..	..	....	2	....	2	....	1	....	....	....
35	Scrofula	17	..	..	....	....	1	..	..	....	....	....	1	....	....	....	....	....
36–38	Venereal diseases	114	..	..	....	....	1	..	..	....	2	....	3	2	1	....	....	1
39	Cancer of mouth	50	..	..	....	....	....	..	..	....	1	....	....	....	1	....	....	1
40	Cancer of stomach and liver	629	..	1	12	5	2	1	1	10	19	3	8	10	16	9	4	2

* Stillbirths not included.

during the year 1902. (Stillbirths excluded.)

to Keweenaw.																											Classification No.
Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	G'd Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.		
339	83	298	48	323	227	401	232	562	60	307	297	355	377	943	336	560	428	99	84	265	642	638	77	1734	34		
25	..	8	1	9	1	9	3	16	1	7	4	8	13	11	7	9	8	1	1	5	19	7	1	55	..		1
....	..	....	..	....	....	1	....	....	..	....	....	....	....	....	....	....	....	..	..	1	....	2	..	2	..		
....	1	1	1	....	....	....	....	....	..	....	....	....	1	....	....	2	4	2	..	1	1	1	1	2	..		4
2	..	....	..	3	....	....	....	1	..	....	....	1	....	2	....	....	1	1	..	....	....	....	..	1	..		5
4	1	2	..	6	2	5	....	2	..	1	....	3	....	12	1	10	1	..	..	4	2	3	..	2	..		6
5	1	1	..	7	2	2	....	....	..	3	10	....	1	11	5	....	3	1	..	4	1	1	2	10	2		7
2	1	2	..	1	2	1	2	7	2	2	2	4	..	7	14	4	....	..	..	5	8	1	..	11	..		8
8	1	....	..	5	3	4	....	3	1	14	3	....	1	7	3	1	4	2	1	1	3	9	2	....	5		
....	1	....	..	....	....	1	....	....	..	2	....	....	1	1	....	1	....	1	1	1	....	1	..	....	..		9
....	..	....	..	1	....	....	....	2	..	5	1	....	....	2	1	....	2	..	..	2	1	....	..	5	..		
1	1	7	..	....	1	9	3	5	..	2	3	7	7	3	1	21	13	2	1	1	8	6	1	15	..		10
....	..	1	..	2	1	....	....	....	..	....	1	....	1	....	....	....	....	..	..	....	....	1	..	1	..		13
2	1	1	..	1	....	4	1	3	2	1	....	1	....	7	1	5	....	..	..	1	9	4	1	5	..		14
2	..	1	..	....	....	2	....	3	..	....	1	....	....	2	....	2	2	..	..	....	2	5	..	15	..		18
....	..	....	..	....	....	....	....	....	..	....	....	....	....	1	....	....	....	..	..	....	....	....	..	....	..		
....	..	....	..	....	....	....	....	....	..	....	....	....	....	....	....	....	....	..	..	....	....	....	..	....	..		19
....	..	2	..	....	....	2	....	....	..	....	....	....	....	....	....	....	....	..	..	....	....	....	1	....	..		
3	1	....	..	2	4	1	....	4	..	1	1	1	1	2	2	3	2	..	1	2	3	1	..	3	..		20
16	4	16	2	27	16	22	19	47	3	10	21	22	16	64	29	18	24	9	6	18	34	37	2	126	3		27
....	..	....	..	....	....	....	....	1	..	....	....	....	....	....	....	....	2	..	..	1	....	2	..	2	0		26
....	..	....	..	4	1	....	1	1	..	....	....	2	....	9	2	1	1	..	..	2	1	2	..	7	..		28
....	..	4	..	1	1	2	....	1	..	2	....	2	1	2	1	2	....	..	1	1	4	4	1	10	..		29
1	..	....	..	....	....	....	....	....	..	....	....	....	....	1	1	....	....	..	1	....	....	1	..	3	..		30
....	..	....	..	....	....	....	....	....	..	....	....	....	....	1	....	....	....	..	..	....	....	....	..	1	..		31
....	..	....	..	....	....	....	....	....	..	1	1	....	1	1	....	....	....	..	..	....	....	....	..	2	..		32
....	1	....	..	1	1	2	1	....	1	....	1	....	....	....	....	....	....	..	..	....	....	1	..	1	..		33
....	..	1	..	....	1	....	....	1	..	....	....	....	....	3	1	....	....	..	..	....	....	1	..	4	..		34
....	..	....	..	....	....	1	1	....	..	....	....	....	....	....	....	3	....	..	..	1	....	....	..	4	..		35
1	1	....	..	1	....	....	....	2	1	....	1	1	....	1	....	....	3	..	..	....	1	4	..	4	..		36-38
1	..	....	..	....	....	....	....	....	..	....	....	1	1	4	1	1	3	..	..	....	1	1	..	3	..		39
3	2	10	2	8	1	10	7	9	..	3	2	11	9	18	7	10	4	3	..	4	19	20	..	42	..		40

Table IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1902.	State.	Counties—Alcona															
			Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.
41	Cancer of intestines	130	..	..	1	1	....	..	..	1	5	....	4	3	5	1	1	1
42	Cancer of genital organs	214	..	..	3	....	....	..	..	6	6	....	4	4	8	5	4	2
43	Cancer of breast	132	..	..	3	....	....	1	..	3	1	....	2	1	3	2	1	....
44	Cancer of skin	67	..	1	....	1	....	..	..	1	2	....	1	1	3	....	....	....
45	Cancer of other organs	261	..	..	3	1	....	..	..	3	6	....	6	1	7	3	1	1
46	Tumors	39	..	..	1	1	....	..	..	....	2	....	2	....	....	....	....	1
47-48	Rheumatism	193	..	..	6	2	1	1	..	....	6	....	8	3	3	3	1	..
50	Diabetes	289	1	1	6	....	....	..	..	4	4	2	4	5	5	6	1	1
53-54	Anemia, leukemia	190	..	..	5	1	1	..	1	2	2	....	3	2	5	2	....	....
56	Alcoholism	73	..	..	1	1	....	..	1	....	....	....	2	....	2	....	1	1
57-59	Chronic poisonings	23	..	..	....	....	....	..	..	1	....	....	....	1	4	....	....	....
55, etc	Other general diseases	59	..	..	2	....	....	..	..	....	2	....	2	1	4	....	1	....
	II. Diseases of Nervous System.																	
60	Encephalitis	66	1	..	3	....	....	..	..	2	2	....	1	....	1	....	....	2
61	Meningitis	384	..	1	7	2	2	1	1	3	13	2	7	3	7	....	....	5
62	Locomotor ataxia	56	..	..	1	....	....	1	..	1	2	....	2	....	5	2	2	.
63	Other diseases of spinal cord	136	..	2	3	....	1	..	..	....	2	1	3	1	2	....	....	..
64	Apoplexy	1,249	1	3	35	1	4	3	..	10	26	1	26	35	30	17	2	9
65	Softening of brain	88	..	..	4	....	1	1	..	2	....	....	5	6	2	1	2	...
66	Paralysis	760	2	..	16	6	3	..	1	14	9	....	19	16	36	7	7	5
67	General paralysis of insane	143	..	..	3	....	....	..	..	....	1	....	3	1	2	2	....	...
68	Other forms of mental disease	80	..	..	....	2	....	..	..	1	1	....	1	1	3	1	....	.
(74)	Other diseases of the brain	65	..	..	1	....	1	..	..	1	3	....	....	....	3	1	....	..
69	Epilepsy	152	..	..	1	....	1	..	..	1	5	....	2	2	2	3	....	...
70-71	Convulsions	473	..	1	3	4	2	1	4	3	13	1	11	2	5	....	2	...
72	Tetanus	33	..	..	....	....	....	..	..	....	3	....	1	....	....	....	....	...
73-76	Other diseases of nervous system	124	..	..	....	....	1	..	..	1	2	....	3	1	1	2	....	1
	III. Diseases of Circulatory System.																	
77	Pericarditis	45	..	..	1	....	1	..	..	....	....	....	....	....	....	1	....	1
78	Endocarditis	129	..	..	1	....	....	..	..	....	1	....	5	....	6	1	....	1
79	Heart disease	2,910	2	4	48	10	10	6	1	37	60	8	58	56	88	46	11	14
80	Angina pectoris	218	..	..	2	1	....	..	..	3	4	1	5	5	8	1	2	1
81	Diseases of arteries	174	..	..	11	1	....	..	1	2	5	1	2	....	7	3	2	....
82	Embolism and thrombosis	60	..	..	2	....	....	..	..	2	....	....	....	....	....	....	1	...

by counties, during the year 1902. (Stillbirths excluded.)

to Keweenaw.

Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	G'd Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Classification No.
....	..	3	..	....	....	4	....	1	..	1	2	....	1	8	1	3	2	..	..	1	4	5	..	6	..	41
....	..	4	..	1	....	1	1	5	1	2	2	2	3	4	...	4	2	1	1	1	9	2	1	16	..	42
2	..	2	1	....	....	1	....	4	1	1	....	1	5	5	1	3	1	..	..	....	2	4	..	7	..	43
....	..	1	..	....	....	....	....	1	1	....	1	1	2	...	1	3	1	..	1	1	1	...	..	5	..	44
1	..	4	..	3	1	3	1	9	..	2	3	6	7	5	...	4	2	2	..	....	7	5	..	23	..	45
....	..	....	..	1	....	....	1	2	..	1	....	1	....	...	...	1	...	..	..	....	3	1	..	2	..	46
3	..	3	2	3	....	7	2	3	..	1	1	4	3	1	...	7	3	..	..	1	5	...	..	7	..	47,48
1	..	7	..	1	....	5	2	8	2	2	4	7	8	9	8	7	2	1	..	3	6	4	1	13	2	50
1	1	1	..	1	2	6	1	3	..	....	2	1	4	6	6	5	...	..	..	....	4	5	..	13	..	53-54
3	..	....	..	3	3	....	2	....	..	2	1	....	....	1	...	...	2	..	..	1	1	...	1	6	..	56
....	..	1	..	....	....	....	....	1	..	....	....	....	1	...	...	...	...	..	..	....	1	2	..	3	..	57-59
3	..	1	..	1	1	....	1	2	..	....	....	1	....	2	...	...	1	..	..	....	1	...	..	6	..	55, etc.
1	..	1	..	....	....	....	....	2	1	....	....	2	....	2	1	3	...	..	..	1	1	...	..	5	..	60
5	2	3	..	7	5	6	8	5	..	1	4	4	2	9	5	6	5	4	..	2	9	1	..	21	1	61
....	..	1	..	....	....	....	....	1	..	....	....	....	....	...	...	3	...	..	..	....	....	2	..	6	..	62
....	..	3	..	1	....	2	1	3	..	....	1	4	1	3	...	3	3	1	..	....	4	3	1	7	..	63
4	5	16	1	5	3	18	9	24	..	3	13	15	15	14	9	21	20	1	..	9	29	47	4	87	..	64
....	1	....	..	....	....	2	2	2	..	1	....	2	3	1	1	1	1	1	1	1	...	1	..	5	..	65
3	3	5	1	7	1	18	3	26	..	2	5	18	15	5	8	15	24	2	..	7	24	22	1	42	..	66
....	1	....	..	1	1	2	....	4	..	....	13	2	2	...	...	1	5	..	..	....	2	14	..	5	..	67
....	..	1	..	1	....	2	2	2	1	....	2	1	2	1	1	...	3	..	..	....	1	2	..	2	..	68
2	1	....	..	....	....	....	....	4	..	2	....	1	....	...	2	1	...	..	..	1	1	5	..	7	..	(74)
1	2	1	..	2	2	4	1	3	..	1	8	1	2	...	2	1	1	..	..	....	1	7	..	4	..	69
13	2	3	..	5	4	1	5	3	..	6	3	3	2	36	7	2	2	1	3	4	4	4	1	13	4	70,71
....	..	1	..	....	....	1	1	....	..	....	1	....	1	2	...	...	...	..	..	....	....	1	..	1	..	72
....	..	2	..	....	1	4	1	1	..	1	1	1	1	5	1	4	2	1	..	1	3	2	..	2	..	73-76
....	..	....	..	....	....	....	....	....	..	....	1	2	1	1	1	...	...	1	..	....	2	...	..	6	..	77
1	..	1	..	....	....	5	2	1	1	....	3	4	....	2	...	1	3	1	..	1	1	4	..	11	..	78
16	6	43	3	13	10	65	19	58	3	7	35	40	59	33	30	90	58	5	2	27	72	75	2	188	..	79
....	1	3	..	1	....	4	1	3	..	1	2	4	7	3	6	3	8	1	..	....	13	2	..	12	..	80
1	1	....	..	1	....	3	....	....	..	1	8	1	2	2	3	2	4	1	..	1	4	4	..	17	..	81
....	..	....	..	1	....	1	1	2	..	....	....	1	1	3	...	...	2	..	..	....	1	7	..	2	..	82

Table IV.—Co

Classification No.	Causes of death, 1902.	State.	Alcona.	Alger.	Allegan.	Alpena.	Antrim.
41	Cancer of intestines	130	..	..	1	1	..
42	Cancer of genital organs	214	..	..	3	..	..
43	Cancer of breast	132	..	..	3	..	..
44	Cancer of skin	67	..	1	..	1	..
45	Cancer of other organs	261	..	..	3	1	..
46	Tumors	39	..	..	1	1	..
47–48	Rheumatism	193	..	..	6	2	
50	Diabetes	289	1	1	6	..	..
53–54	Anemia, leukemia	190	..	..	5	1	
56	Alcoholism	73	..	..	1	1	..
57–59	Chronic poisonings	23	..	..	..	..	..
55, etc	Other general diseases	59	..	..	2	..	..
	II. Diseases of Nervous System.						
60	Encephalitis	66	1	..	3	..	..
61	Meningitis	384	..	1	7	2	
62	Locomotor ataxia	56	..	..	1	..	..
63	Other diseases of spinal cord	136	..	2	3	..	
64	Apoplexy	1,249	1	3	35	1	
65	Softening of brain	88	..	..	4	..	
66	Paralysis	760	2	..	16	6	
67	General paralysis of insane	143	..	..	3	..	
68	Other forms of mental disease	80	..	..	..	2	..
(74)	Other diseases of the brain	65	..	..	1	..	
69	Epilepsy	152	..	..	1	..	
70–71	Convulsions	473	..	1	3	4	
72	Tetanus	33	..	..	..	..	..
73–76	Other diseases of nervous system	124	..	..	..	..	
	III. Diseases of Circulatory System.						
77	Pericarditis	45	..	..	1	..	
78	Endocarditis	129	..	..	1	..	..
79	Heart disease	2,910	2	4	48	10	1
80	Angina pectoris	218	..	..	2	1	..
81	Diseases of arteries	174	..	..	11	1	..
82	Embolism and thrombosis	60	..	..	2	..	..

by counties, during the year 1902. (Stillbirths excluded.)

Keweenaw.

Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	G'd Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Classification No
....	..	....	..	....	....	....	....	....	..	1	....	....	....	....	....	....	....	..	..	....	....	....	..	1	..	83
....	..	....	..	....	....	....	....	1	..	....	....	....	....	....	....	....	....	..	..	....	....	....	..	....	..	84
....	..	....	1	....	....	....	....	3	..	1	....	....	1	1	1	....	....	1	..	....	....	....	..	4	..	85,86
....	1	....	..	....	....	....	....	....	..	....	....	....	....	2	....	1	1	..	..	....	2	....	..	....	1	88
....	..	....	..	....	....	....	....	....	..	1	....	....	....	2	....	....	....	..	..	1	....	....	..	....	..	
....	..	....	..	....	....	1	....	....	..	....	....	....	....	....	....	....	....	..	..	....	....	....	..	1	..	89
2	1	....	3	6	4	2	3	7	1	8	7	....	2	25	5	5	1	1	5	3	10	11	4	21	1	90
3	3	4	1	1	1	6	....	10	1	5	....	6	....	2	3	3	4	..	1	2	7	6	1	24	1	91
....	1	4	2	4	7	6	3	4	..	8	4	3	4	24	3	4	2	..	..	3	7	4	..	24	2	92
29	3	21	5	14	13	22	14	47	6	27	16	16	17	66	26	39	25	9	10	18	42	33	6	95	3	93
2	..	2	..	2	2	2	....	3	..	2	....	2	1	3	3	1	....	..	..	1	1	3	2	8	..	94
....	..	2	1	1	1	2	....	....	..	1	....	1	1	2	3	2	1	..	2	2	6	4	..	25	..	95
....	..	....	..	....	....	....	....	....	..	1	1	....	....	1	....	....	1	..	..	....	1	....	..	....	..	96
....	..	....	1	2	1	1	1	4	1	....	1	....	....	1	1	6	3	..	..	1	1	2	..	3	..	97,98
....	..	....	..	....	1	....	....	....	..	....	....	....	....	1	....	1	1	..	..	....	....	....	..	7	..	87,99
....	..	....	..	....	3	....	1	....	..	....	1	1	3	3	3	....	1	..	..	....	2	1	1	6	..	
2	1	....	..	1	....	1	....	1	..	....	....	1	....	1	....	....	....	..	..	....	....	....	..	1	..	100
....	1	1	..	....	....	....	....	....	..	....	....	1	....	2	....	....	....	..	..	1	....	1	1	1	..	101,102
....	..	....	..	1	....	1	1	....	..	....	....	....	1	....	....	3	....	2	..	....	....	....	..	2	..	
....	..	....	..	1	....	2	....	1	..	....	....	....	2	1	1	1	2	..	..	2	2	....	..	9	..	103
....	..	2	..	....	1	2	....	1	..	2	3	2	2	5	....	4	5	1	..	1	1	3	..	14	..	
1	..	3	..	2	1	6	5	2	1	3	4	4	....	1	....	3	2	2	..	2	5	6	1	19	..	104
....	..	....	..	....	....	....	....	....	..	....	....	....	....	....	....	....	....	..	..	....	....	....	..	1	..	(314)
39	2	7	3	35	42	7	13	8	4	25	11	12	6	115	14	23	14	1	9	13	8	21	5	59	4	105
5	2	5	..	4	4	8	2	2	3	7	4	5	8	10	5	11	7	3	2	2	11	6	1	17	2	106
....	..	....	..	1	....	....	....	1	1	....	2	....	2	3	....	2	....	..	..	1	4	5	..	4	..	108
3	..	4	..	4	1	....	1	1	..	5	....	1	5	50	3	5	1	..	1	2	1	4	..	12		
....	..	1	..	....	1	2	1	1	..	1	....	2	1	2	....	1	....	..	1	2	2	3	1	6	..	107,109
....	..	....	..	....	....	....	1	1	1	1	....	....	....	2	1	....	....	..	..	....	....	....	..	....	..	110
....	..	....	..	....	1	....	....	....	..	....	....	....	....	....	....	....	....	..	..	....	....	....	..	....	..	111

Table IV.—Continued.—Causes of death in Michi

Counties—

	Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.
			8	1	2	1		1	9	1	9	3	7	4	1
					1				1		2		1		
			3	1	1		1	3	4		9	4	7	3	
											1				
			3	2	2	1		2	10		1	2	4		
			2		1	1			10		1	2	7	2	
			1												
						1			5		1	1	2		
			24	3	3	2		14	26	5	25	15	27	17	
			2		4	1		1	3		2		2	1	
			1	1					1			1	2		
			5		1			2	3		2	2	2	3	
								1	4			1	1		
				1				1	3		2		2		
									1				1	1	
			1												
			2		2			4	2		1	4	3	2	
			5	1	3	1		2	9	1	5		2	3	
			2	1	3				1		1	3	4		
			1	3	5	1			2	1	1	1	3	3	
	1				1		1	2	2		3		1		1
													1		
			1					1	2				1		
			1					1							
				1	3			1	3			2	1	2	1
													1		

by counties, during the year 1902. (Stillbirths excluded.)

to Keweenaw.																										
Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	G'd Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Classification No.
2	..	2	..	1	1	4	2	2	..	1	....	1	3	4	1	4	3	1	..	4	2	2	1	6	..	112
1	..	1	..	....	....	1	....	1	..	....	1	....	....	2	1	1	...	..	..	...	1	3	..	5	..	113
2	2	4	..	....	2	1	1	1	..	1	3	4	5	2	...	3	8	2	..	3	8	9	2	12	1	114
....	..	....	..	....	....	....	....	....	..	....	....	1	....	...	1	2	...	..	..	...	...	...	..	....	..	115
1	..	1	..	2	2	5	1	4	..	3	1	6	1	5	4	4	4	..	..	3	9	4	1	20	..	116
2	..	2	..	2	2	1	2	7	1	....	4	3	1	10	2	7	3	..	..	6	6	9	..	12	..	118
....	..	....	..	....	....	....	....	....	..	....	....	....	....	...	...	...	...	..	..	...	...	...	..	....	..	117
3	..	1	..	....	....	....	....	1	..	....	....	1	2	4	1	2	2	..	..	...	...	1	..	5	..	119
8	1	13	2	11	1	16	10	23	1	1	8	8	26	23	8	27	15	1	..	13	31	23	3	61	1	120
2	..	1	..	....	....	2	....	....	..	....	1	3	1	1	1	3	2	1	..	2	3	4	1	8	1	121
....	..	1	..	....	....	1	....	....	..	....	1	....	....	...	...	2	...	..	..	...	...	1	..	....	..	122
2	..	....	..	....	1	2	....	7	..	....	....	....	2	1	4	4	2	1	..	1	2	4	..	10	..	123
....	..	....	..	....	1	1	....	3	..	....	....	....	2	...	...	1	1	..	1	...	4	...	..	4	..	129
2	..	1	..	....	....	1	....	....	..	....	....	3	2	3	...	...	1	..	..	1	1	3	..	3	..	127, 128, 130
....	..	....	..	1	....	1	....	....	..	....	1	....	....	...	2	2	...	..	..	1	2	1	..	3	..	131
1	..	....	..	....	....	....	....	1	..	....	....	....	....	...	...	...	...	..	..	...	2	2	..	....	..	124–126, 132, 133
1	..	1	..	1	....	....	....	2	..	1	....	3	1	2	2	...	2	..	..	2	6	9	..	8	1	
2	..	1	1	2	....	2	2	5	..	4	....	5	2	6	...	5	5	..	..	1	1	1	2	13	..	137
....	..	1	..	1	....	1	1	2	..	....	3	2	1	5	...	...	...	..	..	1	1	3	..	5	..	138
....	1	....	..	1	2	1	1	4	1	1	1	....	1	4	1	4	3	1	..	1	2	3	2	15	..	134, 136, 139–141
....	2	1	..	....	....	1	....	3	..	1	....	1	2	1	2	2	2	..	..	...	2	2	..	1	..	142
....	..	....	..	....	....	1	....	....	..	....	1	....	1	...	...	1	...	..	..	...	1	1	..	3	..	143
....	..	....	..	....	....	1	....	1	..	....	....	1	....	1	...	...	...	..	..	...	1	1	1	1	..	144
....	..	....	..	1	2	....	....	....	..	1	....	....	1	1	...	1	...	..	..	...	...	1	..	3	..	145
2	..	1	..	....	....	....	1	1	..	1	1	1	1	6	...	...	...	1	..	...	3	...	..	4	..	146
....	..	....	..	....	....	....	....	....	..	....	....	....	....	...	...	...	...	..	..	...	...	...	..	....	..	147
....	..	....	..	....	....	....	....	....	..	....	....	....	....	...	...	...	...	..	..	...	...	...	..	....	..	148–149

Table IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1902.	State.	Counties—Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.
	X. Malformations.																	
150	Hydrocephalus	54	..	..	2	2	1	..	..	1	1	....	....	....	....	....	....	1
	Congenital malformations of heart (cyanosis)	107	..	1	2	....	2	..	..	1	2	1	1	3	4	....	....	....
	Other congenital malformations	184	..	..	2	....	2	1	..	2	7	2	1	....	....	3	3	1
	XI. Early Infancy.																	
151-153	Premature birth	608	1	2	9	7	3	3	1	3	24	1	11	4	13	3	2	2
	Congenital debility	685	2	2	4	10	3	1	1	3	21	4	15	5	18	5	3	14
	XII. Old Age.																	
154	Old age	1,002	3	..	25	4	3	1	3	7	22	5	15	14	16	5	4	4
	XIII. Violence.																	
155	Suicide by poison	77	..	..	....	....	1	..	..	1	1	....	....	....	1	1	....	....
156	Suicide by asphyxia	3	..	..	....	....	....	..	..	....	....	....	....	....	....	....	....	....
157	Suicide by hanging	47	..	..	....	....	....	..	..	....	1	....	1	1	....	1	....	....
158	Suicide by drowning	24	..	..	1	....	....	..	..	1	....	....	....	1	1	1	....	....
159	Suicide by firearms	48	..	..	....	....	....	..	..	....	....	....	3	....	1	....	....	....
160	Suicide by cutting instruments	17	..	..	1	....	....	..	..	....	....	....	....	....	....	....	....	....
161	Suicide by jumping from high places	3	..	..	....	....	....	..	..	....	....	....	....	....	1	....	....	....
162	Suicide by crushing	2	..	..	....	....	....	..	..	....	....	....	....	....	....	....	....	....
163	Suicide by other or unspecified means	23	..	..	....	....	....	..	..	1	2	1	....	....	1	....	....	....
164,165	Fractures and dislocations	233	..	..	3	....	1	2	..	3	4	2	4	4	10	1	....	....
167	Burns and scalds	156	2	..	....	2	....	..	1	1	1	4	3	3	2	....	5	1
169	Heat and sunstroke	9	..	..	....	....	....	..	..	....	....	....	....	....	....	....	....	....
170	Cold and freezing	14	..	1	1	....	....	..	..	....	....	1	....	....	....	....	1	....
(171)	Lightning	15	1	1	1	....	....	..	..	....	....	....	....	....	....	....	....	....
172	Drowning	265	..	4	1	3	1	1	..	....	8	1	8	3	8	1	2	2
174	Inhalation of poisonous gases	26	..	..	....	....	....	..	..	....	1	....	....	....	1	....	....	....
175	Other accidental poisonings	89	..	..	2	....	....	1	..	....	....	....	....	....	1	1	....	1
	Accidental gunshot wounds	83	..	1	....	1	1	2	2	1	....	1	1	2	1	1	....	....
	Injuries by machinery	42	..	1	....	1	1	..	..	....	....	....	1	1	....	1	....	1
	Injuries in mines and quarries	106	..	..	....	....	....	..	..	....	1	....	....	....	....	....	....	....
166	Railroad accidents and injuries	228	..	1	2	2	....	..	1	1	8	....	9	....	9	2	4	....
	Injuries by vehicles and horses	68	..	..	1	....	....	..	..	....	1	3	....	....	....	....	....	....
	Injuries by electric cars	43	..	..	....	....	....	..	..	....	1	....	....	....	1	....	....	....

by counties, during the year 1902. (Stillbirths excluded.)

Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	G'd Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Classification No.
1	1	....	..	....	....	1	....	....	..	....	1	1	1	7	1	1	....	..	..	....	....	....	..	5	..	
3	..	....	1	....	....	1	2	1	..	2	1	2	2	3	1	4	2	1	..	....	6	2	..	8	..	150
1	3	2	..	1	2	1	....	2	1	3	....	3	5	6	1	3	5	1	..	5	1	2	..	3	..	
10	2	2	2	12	7	6	10	10	2	10	6	11	1	31	7	12	6	10	..	3	7	15	3	26	..	
7	1	3	4	6	9	....	6	9	2	12	7	5	8	43	7	9	6	1	5	11	15	3	2	29	..	151-153
11	4	11	1	4	2	11	7	23	2	3	9	16	9	16	12	18	16	4	1	7	19	14	3	60	2	154
....	..	....	..	....	....	....	....	1	..	....	1	2	2	1	2	4	2	..	..	1	1	2	2	6	..	155
1	..	....	..	....	....	....	....	....	..	....	....	....	....	....	....	....	....	..	..	....	....	1	..	....	..	156
....	..	....	..	1	....	1	....	3	..	....	1	3	....	1	1	....	....	..	..	1	2	2	..	3	..	157
....	..	....	..	....	....	....	1	....	..	....	....	....	1	....	....	1	....	..	..	....	....	....	..	2	..	158
1	..	1	..	....	....	1	....	....	..	....	....	....	1	2	1	1	1	..	..	....	1	1	..	4	..	159
1	1	....	..	....	....	....	....	1	..	1	....	....	....	....	1	1	....	..	..	....	....	....	1	....	..	160
....	..	....	..	....	....	....	....	....	..	....	....	....	....	....	....	....	....	..	..	....	1	....	..	....	..	161
....	..	....	..	....	....	....	....	....	..	....	....	....	....	....	....	....	....	..	..	....	....	....	..	....	..	162
1	..	1	..	....	....	1	....	1	..	....	....	....	....	....	....	....	....	..	..	....	....	1	..	1	..	163
1	..	2	1	6	4	....	1	4	..	2	3	2	9	15	2	7	....	..	2	2	8	7	..	10	..	164,165
4	1	....	..	1	3	1	4	2	1	5	....	2	5	6	1	2	2	1	1	1	1	2	..	8	1	167
....	..	....	..	....	....	1	....	....	..	....	....	....	....	....	....	....	....	..	..	....	1	....	..	1	..	169
1	..	....	..	1	....	1	....	....	..	....	....	....	1	2	....	....	....	..	..	....	....	....	..	....	..	170
....	..	....	..	....	....	....	....	1	..	....	....	....	....	....	....	....	....	..	..	1	1	1	..	1	..	(171)
8	..	1	..	2	....	1	2	4	1	....	4	....	....	16	5	3	4	2	7	2	3	5	1	7	..	172
....	..	....	..	1	....	....	....	....	..	....	....	....	....	1	....	....	....	..	..	1	1	....	..	1	..	174
1	1	2	..	....	2	1	....	1	..	....	1	1	2	2	....	....	2	..	1	2	1	1	..	12	..	175
3	..	....	1	....	2	....	1	2	2	....	....	....	1	1	....	....	....	..	1.	1	1	3	1	2	..	
1	..	....	..	1	....	1	1	....	..	....	....	....	....	1	1	....	....	1	..	....	2	1	..	5	..	
....	..	....	..	....	6	....	....	....	..	28	....	....	....	29	....	....	....	..	8	....	....	....	..	....	1	
4	..	2	1	6	2	4	5	8	..	6	4	2	2	6	....	2	2	..	..	1	6	6	2	11	..	166
1	..	1	..	....	....	1	1	1	..	....	1	1	....	6	1	2	1	..	..	1	1	2	..	2	..	
....	..	....	..	1	....	....	....	....	..	....	....	....	....	2	....	....	....	..	..	....	2	1	..	5	..	

Table IV.—Continued.—Causes of death in Michig

Classification No.	Causes of death, 1902.	State.	Counties—A														
			Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.
166,168, [171],176	Suffocation	39	..	..	....	....	....	..	..	1	....	....	....	....	....	1	....
	Other accidental injuries	380	1	3	2	1	2	2	..	1	16	4	12	6	9	2	6
	Injuries at birth	65	..	..	1	2	....	..	1	....	6	1	....	1	4	....	....
(176)	Homicide	44	..	..	....	....	....	..	..	1	2	....	3	....	1	1	....
	XIV. Ill-Defined Diseases.																
177	"Dropsy"	143	1	..	1	....	2	2	..	....	4	....	3	1	4	2	1
178-179	"Heart failure"	123	1	..	....	3	2	..	..	1	3	....	5	....	7	....	2
	Other ill-defined diseases	383	..	..	7	1	....	1	..	2	8	3	4	2	11	4	....
	Unknown (or unspecified)	283	5	6	3	9	6	4	1	....	5	1	3	1	2	....	3

by counties, during the year 1902. (Stillbirths excluded.)

to Keweenaw.

Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	G'd Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Classification No.
....	..	....	..	....	1	....	1	....	..	2	....	....	....	2	...	...	2	..	..	...	...	6	..	7	..	
6	1	2	2	7	6	5	8	7	..	....	1	3	6	14	3	4	8	2	1	3	10	6	1	12	2	166,168 171],176
1	..	1	..	6	....	....	....	....	..	....	1	1	....	2	1	...	...	..	..	...	2	1	..	3	..	
1	..	1	..	1	1	....	....	....	..	1	1	....	....	1	...	...	...	..	1	3	...	...	..	4	..	(176)
..	..	1	..	....	....	....	1	6	2	....	3	....	4	...	1	2	8	1	..	2	2	...	..	2	..	177
2	..	1	..	4	....	2	1	4	..	1	....	3	1	4	1	2	1	..	..	1	3	3	1	2	..	
3	..	7	1	6	7	2	5	9	1	3	2	3	1	15	2	4	2	..	1	...	9	4	..	32	..	178,179
11	4	1	..	16	4	1	3	5	2	22	2	....	....	12	11	1	...	..	3	2	1	...	..	3	..	

… continued.—Causes of death in Michig…

Counties—L…

Classification No.				[illegible]	Luce.	Mackinac.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Missaukee.	Monroe.
				25	74	53	468	311	512	184	225	268	147	85	369
166, 16[illegible] [171], 17[illegible]															
(17[illegible]			:	:			6	7	17	4	5	3	3	1	5
							1				1				
1[illegible]					1		2				1		1		2
							2			1	1	2		1	
178			:		2		6		3	1		4		1	4
			3	1	1	1	15	3	8	4	1	2			3
			4	1			6	5	1	5		1	1		8
			3	2			5	4	23	1	2	3			2
			1						2		1				1
							1				1	1		2	3
		:	24	3			3	1	3	2	2	2	2		2
			1			2		1	1				1		
		:	6				3	2	1			1	1		1
				1				1	1				1		4
		1		1											
	:														
	:		3			2	1		5		4	1	1	1	1
	::	9	46	17	5	10	33	24	43	15	20	16	8	6	23
							1								1
	2		2	1				2	8			2			
		1	4	1			2	1	3	3	1		1		1
	1					1								1	
											1				
			1						1						
							1		3	1					
	1		2					1		1	1	1			
	1	1					1	1							3
	1		1	2			1	1			3				3
	9	1	12	2	1		7	7	9	4	1	3	1		6

by counties, during the year 1904. (Stillbirths excluded.)

to Wexford.

Montmorency	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	St. Clair.	St. Joseph.	Sanilac.	Schoolcraft.	Shiawassee.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Classification No.
44	415	203	580	161	80	93	207	10	75	419	92	8	995	728	302	376	96	413	417	364	660	5778	207	
...	6	6	6	4	1	4	5	1	5	8	1	..	9	23	7	3	....	8	6	13	7	88	5	1
1	....	....	....	....	....	..	.	..	....	....	1	..	....	....	1	....	....	....	1	....	....	5	....	
1	1	....	....	....	....	..	.	..	1	2	..	..	10	2	....	3	1	....	2	1	2	13	....	4
....	....	1	....	....	....	..	1	..	..	....	2	..	1	....	....	1	....	....	1	....	....	8	....	5
..	....	1	2	1	....	1	1	..	..	....	2	..	14	12	....	2	....	4	....	2	....	83	3	6
....	....	....	2	....	3	2	.	..	1	3	..	..	13	4	1	3	2	3	5	1	3	89	2	7
....	1	1	6	1	1	1	.	..	1	4	1	..	9	16	1	7	....	2	6	....	1	71	....	8
1	6	4	4	2	....	1	.	1	2	1	7	..	3	6	1	3	1	1	3	1	10	144	3	
....	1	....	....	1	....	1	1	..	..	....	4	..	....	1	....	1	1	....	1	....	....	7	1	9
....	1	....	1	....	....	2	.	..	..	1	..	..	7	3	....	....	....	....	2	1	1	8	1	
....	2	4	7	4	1	1	3	..	..	6	..	..	9	10	6	1	2	8	7	1	6	20	1	10
....	....	2	....	....	....	..	1	..	..	....	..	..	1	1	....	1	....	....	1	....	....	9	....	13
....	....	1	2	....	....	..	1	..	..	1	..	..	8	....	2	1	2	....	....	1	3	20	1	14
..	1	1	1	....	....	..	....	..	..	3	..	..	7	2	....	2	....	3	3	....	3	14	1	18
..				....	....	..	....	..	..	....	..	..	....	....	....	....	1	....	....	....	....	2	....	
.				....	....	..	....	..	..	....	..	..	....	....	....	....	....	....	....	....	....	....	....	19
.				....	....	..	....	..	..	....	1	..	....	....	....	....	....	....	....	....	....	3	....	
	..	1	2	....	....	..	3	..	..	2	..	..	4	1	1	1	1	5	4	3	5	22	....	20
5	25	12	25	10	3	2	12	1	4	32	4	..	67	36	23	33	2	27	27	16	39	410	16	27
.	2		1	....	....	..	....	..	..	1	..	..	..	1	....	....	....	....	....	1	....	2	....	26
	2		3	....	....	..	....	..	..	....	..	..	1	2	1	3	....	1	....	1	2	24	1	28
.	6		3		1	1	....	..	..	5	..	..	6	....	2	....	....	1	....	1	4	16	....	29
.				....	....	..	....	..	..	....	..	..	1	1	....	3	....	....	....	1	1	5	....	30
				....	....	..	....	..	..	....	..	..	....	....	....	....	....	....	....	....	....	....	....	31
	1			....	....	..	....	..	..	....	..	..	....	....	....	....	....	....	1	....	1	6	....	32
.				....	....	1	....	..	..	2	..	..	....	2	....	....	....	1	2	....	1	10	....	33
.				....	....	1	....	..	..	....	..	..	....	3	....	....	....	3	....	....	1	3	1	34
.				1	....	..	....	..	..	1	..	..	....	....	....	....	....	....	....	1	....	2	....	35
.				....	....	..	....	1	..	1	..	..	....	....	....	....	....	1	....	....	1	70	....	36-38
....	1			....	....	..	....	..	..	....	..	..	1	....	1	1	....	1	3	....	4	6	....	39
..	11	3	22	6	1	1	4	..	..	14	1	..	19	16	6	6	....	9	4	16	25	95	4	40

Table IV.—Continued.—Causes of death in Michigan.

Classification No.	Causes of death, 1902.	Counties—Lake																
		Lake.	Lapeer.	Leelanau.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.
41	Cancer of intestines	..	1	....	3	3	..	..	2	1	2	....	....	....	....	..	3	1
42	Cancer of genital organs	..	....	....	6	....	..	..	4	3	2	2	2	2	1	1	2	3
43	Cancer of breast	..	3	....	5	2	..	1	2	1	1	1	1	1	....	..	3	4
44	Cancer of skin	..	2	....	3	1	..	..	....	....	....	....	2	....	1	..	1	1
45	Cancer of other organs	..	2	....	9	5	1	..	6	....	3	....	2	1	2	1	2	2
46	Tumors	..	....	....	1	....	1	..	1	....	2	....	....	....	....	1	....	1
47-48	Rheumatism	1	2	....	4	....	..	1	3	2	1	1	3	2	....	..	3	1
50	Diabetes	2	3	....	12	2	..	..	6	6	7	1	5	2	1	..	1	1
53-54	Anemia, leukemia	..	3	1	1	2	..	..	5	1	1	1	1	....	....	..	2	3
56	Alcoholism	..	....	....	1	....	..	1	3	....	....	1	....	1	....	..	1	....
57-59	Chronic poisonings	..	....	....	....	....	..	..	2	....	....	....	....	....	....	..	....	....
55, etc.	Other general diseases	..	....	....	....	....	..	..	1	....	1	1	....	....	....	..	1	....
	II. Diseases of Nervous System.																	
60	Encephalitis	..	3	....	3	....	..	..	....	1	....	....	....	....	....	..	1	1
61	Meningitis	..	2	....	3	3	1	1	8	3	7	4	4	5	1	..	10	4
62	Locomotor ataxia	..	3	....	1	....	..	..	1	....	....	....	....	1	....	..	1	2
63	Other diseases of spinal cord	..	2	3	3	1	1	..	2	....	2	....	1	2	2	..	....	1
64	Apoplexy	..	19	2	37	12	2	2	20	11	12	5	3	6	6	2	12	20
65	Softening of brain	..	3	....	4	2	..	..	1	....	....	1	2	....	....	..	3	....
66	Paralysis	1	15	2	32	4	1	2	14	5	1	....	6	5	4	1	12	10
67	General paralysis of insane	..	....	....	3	....	10	..	....	1	....	....	....	....	1	..	3	3
68	Other forms of mental disease	..	....	1	....	....	3	..	....	....	....	....	....	....	....	..	1	....
(74)	Other diseases of the brain	..	....	....	1	3	..	1	....	3	....	1	....	....	....	..	..	2
69	Epilepsy	..	8	....	....	2	3	..	3	1	1	1	1	2	1	1	4	4
70-71	Convulsions	..	1	3	1	3	1	1	6	6	12	4	2	4	4	1	6	6
72	Tetanus	1	....	....	....	....	..	..	....	1	1	....	....	....	....	..	....	....
73-76	Other diseases of nervous system	..	3	....	5	1	..	..	1	2	1	....	....	2	....	..	2	5
	III. Diseases of Circulatory System.																	
77	Pericarditis	..	....	....	2	1	..	..	1	....	....	....	....	....	1	..	1	....
78	Endocarditis	..	....	....	....	1	..	..	....	....	3	....	1	2	....	..	3	4
79	Heart disease	7	34	7	80	33	3	1	46	20	19	19	23	8	24	7	30	36
80	Angina pectoris	..	1	2	9	4	..	1	3	1	2	....	1	....	....	1	2	2
81	Diseases of arteries	..	3	....	2	1	..	..	3	....	1	....	....	2	....	..	1	1

by counties, during the year 1902. (Stillbirths excluded.)

to Wexford.

Montmorency.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	St. Clair.	St. Joseph.	Sanilac.	Schoolcraft.	Shiawassee.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Classification No.
...	1	...	2	...	...	..	3	..	..	...	..	..	9	3	3	1	...	...	1	2	2	21	1	41
...	5	2	4	1	...	1	2	..	..	2	..	..	7	3	1	3	1	3	1	1	8	36	...	42
...	5	1	5	...	...	..	1	..	..	3	..	..	4	4	...	1	...	1	3	3	4	15	...	43
...	...	1	2	...	...	..	1	..	..	1	..	..	...	...	2	2	...	...	2	1	3	11	...	44
...	4	1	6	1	...	1	2	..	..	4	1	..	10	8	...	1	...	3	7	4	4	46	2	45
...	...	1	...	...	...	..	...	..	..	...	..	..	1	...	...	...	...	1	...	1	1	7	...	46
...	...	1	6	1	1	..	1	..	..	1	1	..	9	5	5	2	...	2	3	1	2	35	3	47,48
...	6	3	6	...	...	..	1	..	..	3	..	..	6	5	3	5	...	7	3	5	3	39	2	50
...	2	3	4	2	...	..	3	..	..	5	..	..	5	8	...	3	...	4	1	3	6	27	2	53-54
1	2	...	...	...	...	..	...	..	1	...	..	..	1	1	1	...	3	2	1	...	3	13	1	56
...	...	...	1	...	...	..	...	..	..	...	..	..	...	...	...	1	...	...	...	...	1	3	...	57-59
1	...	1	1	...	...	1	...	..	..	...	..	..	4	2	2	1	...	...	1	1	2	6	...	55 etc
1	1	2	1	...	...	..	...	..	1	1	1	..	2	3	...	1	...	1	...	...	1	9	...	60
1	3	1	5	2	...	2	4	..	..	8	..	..	6	8	5	4	1	4	4	4	4	89	4	61
...	...	...	...	1	...	..	1	..	..	...	..	..	1	...	...	1	...	5	1	...	3	5	...	62
...	1	2	8	1	...	..	...	..	..	4	..	..	6	2	1	2	...	4	3	1	7	16		63
...	21	4	34	5	2	1	4	..	1	21	..	..	46	42	26	14	2	19	23	20	34	177	7	64
...	1	...	...	...	...	1	1	..	..	1	..	..	2	1	...	4	2	2	2	...	...	5	...	65
1	15	12	15	7	...	..	5	1	1	9	1	..	27	12	10	4	2	10	13	14	12	69	7	66
...	1	1	15	1	1	..	2	..	..	...	1	..	...	5	2	1	...	2	1	1	2	20	1	67
...	...	...	18	...	...	..	1	..	..	1	..	..	1	...	...	...	...	1	2	...	3	14	...	68
1	...	...	2	...	...	..	...	..	..	1	..	..	2	2	...	...	...	...	...	...	...	9	...	(74)
...	1	1	7	2	...	..	2	..	..	1	..	..	4	4	1	3	...	...	3	2	1	26	1	69
...	7	...	3	2	...	..	1	..	3	14	2	..	17	21	2	4	...	2	3	2	6	136	4	70,71
...	...	...	...	...	...	..	...	..	..	1	..	..	1	...	1	...	...	1	...	2	1	9	1	72
...	2	...	1	...	...	..	1	..	..	...	1	..	5	3	3	4	2	2	5	2	3	21	1	73-7
...	...	...	...	...	...	..	...	..	..	3	..	..	1	3	2	1	...	1	2	2	...	5	...	77
...	2	2	3	3	...	1	...	..	..	2	..	..	3	1	...	1	1	2	2	1	3	31	...	78
4	22	21	60	23	5	5	10	1	6	42	3	..	89	54	37	29	4	49	38	71	84	412	20	79
2	3	1	6	1	...	..	3	..	..	1	..	2	11	2	5	2	...	5	4	2	4	26	1	80
...	2	1	6	2	1	..	...	..	..	1	..	..	4	5	3	3	2	...	...	3	6	29	1	81

Table IV.—Continued.—Causes of death in Michigan

Classification No.	Causes of death, 1902.	Counties—La																
		Lake.	Lapeer.	Leelanau.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Milwaukee.	Monroe.	[illegible]
82	Embolism and thrombosis	..	2	....	....	....	1	1	....	....	....	....	....	....	....	..	2	..
83	Diseases of veins	..	....	....	....	....	..	..	....	....	....	....	....	....	....	..	1	..
84	Diseases of lymphatics	..	....	....	....	....	..	..	....	....	....	....	1	....	....	..	....	..
85 86	Other diseases of circulatory system	..	1	....	1	2	..	..	....	1	....	....	....	....	....	..	2	
	IV. Diseases of Respiratory System.																	
88	Laryngitis	..	....	....	....	....	..	..	....	....	....	....	....	....	....	..	....	..
	Other diseases of larynx	..	1	....	....	....	..	..	....	....	2	....	....	2	....	..	....	..
89	Diseases of thyroid body	..	....	....	....	....	..	..	....	....	....	....	....	....	....	..	....	..
90	Acute bronchitis	..	8	3	2	....	..	2	8	....	17	....	....	3	2	..	4	
91	Chronic bronchitis	..	1	....	12	2	..	1	2	2	4	1	....	1	1	..	3	
92	Bronchopneumonia	..	4	....	11	1	..	..	2	....	12	6	3	9	....	1	5	
93	Pneumonia	5	38	12	25	14	2	10	28	44	27	10	23	28	12	14	23	
94	Pleurisy	1	....	....	1	1	..	..	1	1	2	1	....	....	....	1	....	..
95	Congestion of lungs	..	8	....	7	3	..	1	2	2	6	2	....	1	2	1	2	
96	Gangrene of lungs	..	....	....	....	....	..	..	1	....	....	....	....	....	....	..	....	..
97, 98	Asthma and emphysema	1	1	1	3	....	..	..	....	2	4	1	....	....	....	..	4	..
87, 99	Hemorrhage of lungs	..	....	....	....	....	..	..	....	....	....	....	....	....	....	..	1	
	Other diseases of respiratory system	..	1	1	....	2	..	..	3	....	1	....	1	....	....	..	2	
	V. Diseases of Digestive System.																	
100	Diseases of mouth	..	....	....	....	....	..	..	....	1	....	....	....	1	....	..	....	..
101, 102	Tonsilitis	..	....	....	1	....	..	..	....	....	....	....	....	....	1	..	1	
	Other diseases of pharynx	..	....	....	1	1	..	1	....	....	3	....	....	....	....	..	1	..
103	Ulcer of stomach	..	1	....	....	....	..	..	....	4	2	....	....	....	....	..	2	
	Gastritis	..	6	1	3	2	1	..	1	2	3	1	....	2	....	1	1	
104	Other diseases of stomach	2	5	1	7	2	..	..	2	3	1	4	5	2	2	2	3	..
(314)	Dentition	..	....	....	....	....	..	..	....	....	....	....	....	1	....	..	....	..
105	Diarrhea and enteritis (under 5 years)	..	8	8	23	2	2	1	17	10	39	17	9	19	6	3	15	
106	Diarrhea and enteritis (over 5 years)	2	10	2	12	3	..	..	7	4	4	1	1	3	2	2	6	
	Hernia	..	1	....	2	....	..	..	2	3	2	....	....	1	1	..	1	
108	Obstructions of intestines	..	1	....	4	1	..	..	1	1	2	3	3	....	1	1	3	
107, 109	Other diseases of intestines	..	2	....	2	2	..	..	1	1	1	1	1	....	2	..	....	
110	Acute yellow atrophy of liver	..	1	....	....	....	..	..	....	1	....	....	....	....	....	..	1	..

counties, during the year 1902. (Stillbirths excluded.)

Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	St. Clair.	St. Joseph.	Sanilac.	Schoolcraft.	Shiawassee.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Classification No.
2	....	2	....	....	..	1	1	1	....	..	..	1	3	....	....	....	....	....	3	....	13	....	82
....	....	....	....	....	..	....	..	..	....	..	..	....	1	....	....	....	....	....	1	1	1	....	83
....	....	....	....	....	..	....	..	..	....	1	..	....	1	....	....	....	....	....	....	....	2	....	84
3	....	....	1	....	..	....	..	..	....	..	..	1	....	....	1	1	....	....	....	1	7	....	85,86
1	....	....	....	....	1	....	..	..	1	..	..	2	....	....	....	....	....	....	1	....	9	....	88
....	....	1	....	....	..	....	..	..	....	..	..	....	....	....	....	....	....	....	1	....	7	....	
....	....	....	....	....	..	....	..	..	....	..	..	....	....	....	....	....	....	....	....	....	1	....	89
4	2	5	1	....	1	5	..	..	9	..	..	15	8	1	3	....	7	7	3	1	143	1	90
4	2	7	1	1	2	1	..	2	7	..	..	9	2	3	5	....	6	5	3	10	86	....	91
4	1	5	3	2	2	1	..	1	4	..	..	19	15	2	4	....	9	9	4	7	161	1	92
27	6	28	14	12	10	19	1	7	16	6	..	68	61	25	19	13	27	37	20	53	385	19	93
1	1	1	2	....	..	1	..	1	3	..	..	3	1	....	....	....	....	1	1	....	29	....	94
3	....	....	....	....	1	....	..	1	2	..	..	2	6	4	3	1	4	3	1	2	33	....	95
1	....	....	....	....	..	....	..	..	1	..	..	....	....	....	1	....	....	....	....	....	3	....	96
1	....	....	....	....	1	1	..	..	2	..	..	3	3	....	4	....	1	2	1	2	24	....	97,98
1	....	2	....	....	..	....	..	..	....	..	..	1	1	....	....	....	....	....	....	....	12	1	87,99
....	....	1	1	1	1	....	..	..	1	4	..	7	1	2	3	....	1	1	4	6	10	1	
1	....	1	....	....	1	....	..	..	....	..	..	2	....	1	....	....	....	....	....	1	3	....	100
2	....	....	....	....	1	....	..	..	....	..	..	2	....	....	....	....	....	....	....	....	3	....	101,102
....	....	2	....	....	..	....	..	..	....	1	..	....	3	1	....	....	1	....	....	1	5	....	
1	....	3	....	....	..	....	..	..	1	..	..	5	2	2	1	....	1	2	....	2	8	1	103
2	5	3	1	4	..	1	..	..	5	..	..	10	12	....	1	....	3	....	....	5	54	....	104
5	....	7	2	2	..	....	..	..	4	1	..	10	3	7	4	1	7	3	4	7	27	5	
....	....	....	....	....	..	....	..	..	....	..	..	....	....	....	....	....	....	....	....	....	....	....	(314)
11	4	12	9	3	9	12	..	5	10	3	1	28	30	3	8	4	9	15	7	18	353	8	105
6	5	14	8	2	3	4	..	..	4	..	2	17	13	6	10	4	10	3	2	15	62	4	106
2	1	....	....	....	..	3	..	..	2	..	..	....	2	1	....	....	5	1	....	2	22	1	108
3	2	3	1	1	..	2	..	..	3	..	..	14	13	1	5	2	5	4	1	2	38	4	
....	1	2	2	1	..	....	..	1	2	..	..	2	2	....	....	2	1	2	....	3	16	2	107,109
2	....	....	....	....	..	....	..	..	1	..	..	....	....	1	....	....	....	....	....	....	2	....	110

Table IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1902.	Counties—Lake																
		Lake.	Lapeer.	Leelanau.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Milwaukee.	Monroe.	Montcalm.
111	Hydatid tumors of liver	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
112	Cirrhosis of liver	1	4	1	4	3	..	..	6	1	3	1	2	1	1	..	1	6
113	Biliary calculi	..	3	1	2	..	..	..	1	..	1	..	..	..	..	..	2	..
114	Other diseases of liver	..	3	1	6	2	..	..	1	1	2	..	3	2	1	1	5	4
115	Diseases of spleen	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	1
116	Peritonitis	1	1	2	3	2	2	2	2	3	2	1	..	..	2	1	4	3
118	Appendicitis	..	3	..	3	2	..	1	5	3	4	3	2	4	1	1	2	4
117	Other diseases of digestive system	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
	VI. Diseases of Genito-urinary System.																	
119	Acute nephritis	..	2	1	..	..	..	..	2	2	2	..	..	..	..	..	1	1
120	Brights' disease	..	12	3	23	14	1	5	36	11	12	8	9	11	5	1	12	15
121	Other diseases of kidneys	..	1	..	1	3	..	..	1	..	1	..	..	1	1	..	2	3
122	Calculi of urinary tract	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	1
123	Diseases of bladder	..	3	..	4	1	..	..	3	1	..	1	3	..	1	..	3	2
129	Uterine tumor	..	1	..	1	1	..	1	1	..	1	..	..	..	..	..	1	..
127, 128, 130	Other diseases of uterus	..	..	..	..	1	..	1	..	1	..	1	1	..	..	..	..	1
131	Ovarian tumor	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	1
124-126, 132, 133,	Diseases of tubes	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
	Other diseases of genito-urinary system	..	1	..	4	1	..	1	5	2	..	1	1	1	..	..	..	..
	VII. Childbirth.																	
137	Puerperal septicemia	..	2	3	1	..	1	..	4	2	1	1	1	2	3	2	3	6
138	Puerperal convulsions	..	3	..	..	1	..	..	..	..	..	..	..	1	..	..	1	2
134-136, 139-141	Other causes incident to childbirth	1	1	2	4	..	..	1	1	5	..	1	2	3	..	..	4	4
	VIII. Diseases of Skin.																	
142	Gangrene	..	..	..	1	2	..	..	3	..	..	..	..	..	1	..	1	1
143	Carbuncle	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
144	Abscess	..	..	..	..	1	..	..	..	1	..	..	1	..	..	1	..	..
145	Other diseases of skin	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	2	..
	IX. Diseases of Locomotor System.																	
146	Diseases of bones	..	1	1	1	..	..	..	..	..	..	..	1	1	1	..	1	..
147	Diseases of joints	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
148-149	Other diseases of locomotor system	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

by counties, during the year 1902. (Stillbirths excluded.)

to Wexford.

Montmorency	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	St. Clair.	St. Joseph.	Sanilac.	Schoolcraft.	Shiawassee.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Classification No.
...	...	...	...	...	...	..	...	..	..	1	..	..	1	...	...	...	...	...	...	...	...	...	...	111
...	5	2	1	1	1	1	2	..	1	2	..	..	6	3	5	...	...	6	4	3	7	53	1	112
...	2	...	1	...	...	..	...	..	..	2	..	..	2	2	...	1	...	...	1	2	2	19	...	113
...	4	4	3	...	...	..	2	..	1	2	..	..	5	6	2	3	...	2	6	3	6	43	3	114
...	...	1	...	...	...	..	...	..	..	1	..	..	...	...	...	...	...	...	1	...	...	...	...	115
1	5	1	9	2	...	..	1	..	1	1	..	..	14	7	2	5	...	3	5	2	2	41	1	116
...	3	2	10	...	1	1	1	1	..	...	..	..	16	3	1	7	...	3	4	1	10	62	...	118
...	...	...	...	...	...	..	1	..	..	...	..	..	...	...	...	...	1	...	...	...	1	1	...	117
...	...	...	...	...	...	..	...	..	..	...	1	..	...	2	1	1	...	4	...	2	2	31	...	119
3	22	13	34	2	6	1	5	..	2	17	1	..	46	34	18	17	2	14	12	14	33	213	4	120
1	1	1	4	...	...	..	1	..	..	...	..	..	5	4	2	4	...	2	1	...	1	14	...	121
...	...	...	...	...	...	..	...	..	..	...	..	..	...	1	...	...	...	...	...	1	2	3	...	122
...	1	1	2	...	...	..	2	..	..	...	1	..	4	1	3	...	1	2	...	5	...	18	...	123
...	...	...	...	...	...	..	...	..	..	2	..	..	3	1	...	1	...	...	...	...	8	8	...	129
...	...	...	2	...	...	..	1	..	..	...	..	..	3	1	1	2	...	1	...	2	...	13	...	127, 128
...	...	...	...	...	...	..	1	..	1	...	..	..	2	...	...	...	...	...	...	1	3	16	...	130 131
...	...	...	1	...	...	..	...	..	..	...	..	..	...	...	1	...	...	...	...	...	...	6	...	124, 126, 132, 133
...	...	...	5	...	...	..	1	..	..	1	..	..	7	9	...	2	...	1	1	...	6	28	1	
...	5	...	4	1	1	..	3	..	..	3	..	..	9	6	...	4	2	1	6	3	4	27	1	137
...	2	...	...	...	1	..	1	..	1	1	..	..	4	1	1	2	1	2	1	...	3	11	...	138
...	6	1	1	1	...	2	6	..	2	1	..	..	3	2	1	5	2	2	...	...	4	28	...	134-136 139-141
...	1	...	4	1	...	1	1	..	..	3	..	..	3	3	1	2	...	4	3	1	2	15	...	142
...	...	...	...	...	...	..	...	..	..	...	..	..	...	...	...	1	...	...	...	...	1	2	...	143
...	1	1	1	...	...	..	...	..	..	...	..	..	1	...	2	...	...	...	1	...	...	7	2	144
...	...	...	1	...	...	..	...	..	..	...	..	..	1	1	...	1	...	...	...	1	...	8	...	145
...	...	2	...	1	...	..	...	..	..	1	..	..	1	2	...	1	...	1	...	...	1	11	...	146
...	...	...	...	...	...	..	...	..	..	...	..	..	1	...	1	...	...	...	...	...	...	...	...	147
...	...	...	...	...	...	..	...	..	..	...	..	..	...	...	...	...	...	...	...	...	...	...	...	147-148

TABLE IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1902.	Counties—Isle	Iron	Jackson	Kalamazoo	Kalkaska	Kent	Keweenaw	Lake	Lapeer	Leelanau	Lenawee	Livingston	Luce	Mackinac	Macomb	Manistee	Marquette	Mason	Mecosta	Menominee	Midland	Milwaukee	Monroe	Montcalm
111	Hydatid tumors of liver																								
112	Cirrhosis of liver																	1				1			1
113	Biliary calculi																								
114	Other diseases of liver														2	1	1		2			1	1		2
115	Diseases of spleen																								
116	Peritonitis				3	4	2								4		1	2					1	5	6
118	Appendicitis																								
117	Other diseases of digestive system				4	10	2						1		7	8	14	2	7	15		1	3	5	5
					1	7	2						1		8	5	20	2	2	16		2	3	5	4
	VI. Diseases of Genito-urinary System																								
119	Acute nephritis					10	4	5					3		18	9	6	6	13	2		5	4	11	15
120	Brights' disease																								
121	Other diseases of kidney					2									1	2	1								1
122	Calculi of urinary tract																								
123	Diseases of bladder					1									5	1									
129	Uterine tumor							1							1				1					1	
127, 128, 130	Other diseases of uterus					2		1								2	1	1	2		1				
131	Ovarian tumor															1		1							
124-126, 132, 133,	Diseases of tubes																								
	Other diseases of genito-urinary system																								
	VII. Childbirth.																								
137	Puerperal septicemia							2						1											
138	Puerperal convulsions					2		2						4		3	10		3	2	1			1	
134-136, 139 141	Other causes incident to birth													1			5	1		3				1	
	VIII. Diseases of Skin																								
142	Gangrene																	1						1	
143	Carbuncle							2					3		3	3	4	5	1	2	2			3	3
144	Abscess													4							1				
145	Other diseases of skin														1	1	2			2	1				1
	IX. Diseases of Loco-motor System.							1						4		5		1		2		1		2	3
146	Diseases of bones															2	1			2				1	
147	Diseases of joints															29									
148 149	Other diseases of locomotor system							2					4		1	1	5			6	1			6	
								1							1	1	2		1	1		1			1

es, during the year 1902. (Stillbirths excluded.)

Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	St. Clair.	St. Joseph.	Sanilac.	Schoolcraft.	Shiawassee.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Classification No.
2	....	....	....	....	....	....	....	....	....	4	1	....	....	....	2	2	....	1	8	1	
....	1	1	....	1	....	1	3	....	....	3	....	1	....	....	1	2	3	1	12	5	150
2	....	1	....	2	....	1	3	1	1	9	1	....	5	1	6	2	2	1	38	1	
8	1	2	3	5	....	1	4	1	....	19	6	1	6	4	7	6	1	8	118	6	151–153
5	1	2	4	8	....	1	5	6	....	13	6	1	7	3	6	2	7	4	183	4	
27	5	3	1	8	2	4	23	5	....	36	27	9	12	....	8	21	14	20	169	8	154
2	....	1	....	....	....	....	4	1	....	3	3	....	....	....	1	1	....	2	16	1	155
....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	156
1	1	....	....	....	....	1	....	....	....	2	....	2	1	....	....	....	....	1	6	....	157
....	....	....	....	1	....	....	2	....	....	2	....	....	....	....	....	....	....	....	3	....	158
1	....	....	....	....	....	....	1	....	....	2	1	....	....	....	....	....	....	5	8	....	159
....	1	....	....	....	....	....	1	....	....	1	....	....	1	....	....	....	....	....	1	....	160
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	161
....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	162
2	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	3	....	163
5	2	1	1	....	....	1	....	1	....	6	4	....	4	1	....	3	1	1	38	2	164, 165
1	....	....	1	1	....	....	2	....	....	4	2	2	3	....	2	....	3	4	24	1	167
....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	3	....	169
....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	170
....	....	....	....	1	....	....	....	....	....	1	....	1	1	....	....	....	....	1	1	....	(171)
3	2	2	5	1	....	1	6	2	....	9	15	2	....	5	1	3	2	3	36	....	172
....	....	....	....	....	....	....	1	....	....	....	2	....	....	....	....	....	....	....	10	....	174
1	....	....	1	....	....	....	1	....	....	3	2	....	4	1	1	3	....	1	17	4	175
2	....	....	....	2	....	....	2	....	....	4	2	1	....	....	....	1	2	1	7	2	
1	....	....	3	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	7	....	
....	....	....	1	....	....	....	....	....	....	2	....	....	1	....	....	....	....	....	....	....	166
5	....	1	....	3	....	....	2	....	....	8	4	1	1	....	3	6	1	2	30	3	
....	....	....	1	....	....	1	3	....	1	2	2	1	1	....	1	1	....	3	10	....	
1	....	....	....	....	....	....	3	....	....	1	....	....	....	....	....	....	....	2	23	....	

Table IV.—Concluded.—Causes of death in Michig

Classification No.	Causes of death, 1902.	Counties—															
		Lake.	Lapeer.	Leelanau.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Missaukee.	Monroe.
166, 168 [171], 176	Suffocation	..	....	....	1	....	1	..	....	....	1	....	1	1	....	..	....
	Other accidental injuries	2	3	1	12	1	1	4	2	6	5	4	5	3	5	3	3
	Injuries at birth	..	1	....	1	....	..	..	1	1	1	....	....	....	1	..	....
(176)	Homicide	..	1	....	1	1	..	..	....	....	....	....	1	1	....	..	1
	XIV. Ill-Defined Diseases.																
177	"Dropsy"	..	3	1	1	1	..	2	5	2	1	1	2	....	1	4	[illegible]
178, 179	"Heart failure"	..	1	....	1	1	1	1	3	1	2	1	2	....	1	..	[illegible]
	Other ill-defined diseases	..	4	1	9	3	3	1	1	5	8	1	2	7	....	..	[illegible]
	Unknown (or unspecified)	..	....	7	1	3	..	6	....	14	8	1	....	14	2	2	[illegible]

by counties, during the year 1902. (Stillbirths excluded.)

to Wexford.

Montmorency.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	St. Clair.	St. Joseph.	Sanilac.	Schoolcraft.	Shiawassee.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Classification No.
...	1	1	1	1	....	..	....	..	..	1	..	..	..	....	....	1	....	....	....	....	....	5	....	166, 168
...	7	3	7	1	3	..	5	..	4	7	..	1	6	4	5	5	5	7	5	6	7	39	2	[171], 176
...	2	....	1	....	....	..	1	..	..	....	..	..	4	2	....	1	....	....	....	....	2	10	....	
...	1	....	....	....	....	..	....	..	..	....	..	..	....	....	....	....	....	1	1	1	....	11	....	(176)
2	2	....	1	1	....	..	1	..	..	1	..	..	2	7	2	4	1	....	....	2	4	22	2	177
...	1	....	6	1	2	..	....	..	..	1	..	..	3	6	....	1	3	4	3	3	4	6	....	
1	4	4	3	2	....	1	....	..	..	10	3	..	8	6	1	12	....	5	3	7	8	86	1	178–179
2	5	3	2	....	1	..	4	..	2	....	18	..	5	3	....	1	2	1	4	....	3	8	2	

TABLES

RELATING TO

MARRIAGES

IN

MICHIGAN

DURING THE

YEAR 1902.

PRIMARY TABLES RELATING TO MARRIAGES IN MICHIGAN DURING THE YEAR 1902.

TABLE I.—Marriages in Michigan, by months and counties, during the year 1902.

TABLE II.—Persons married in Michigan, by ages, counties and sex, during the year 1902.

TABLE III.—Marriages and persons married in Michigan, by nativity and counties during the year 1902.

TABLE IV.—Marriages in Michigan, by ages of males and females married, during the year 1902.

TABLE V.—Probate marriages in Michigan, by ages of males and females married during the year 1902.

NOTE.—*Secondary tables* containing marriage rates and other rates, and *comparative tables*, displaying the facts relative to marriages in Michigan for the year 1902 in connection with previous years and other states and countries, may be found on preceding pages of this report, together with the descriptive text.

II.—Persons married in Michigan, by ages, counties and sex, during the year 1902.

e nties.	Total marriages, 1902.	Sex.	Number of persons married, by periods of age, 1902.														
			Under 20 years.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.
TE...	25,653	Total....	7,511	20,185	11,952	4,635	2,588	1,546	1,013	699	489	321	220	81	42	13	11
		Males....	495	9,814	7,752	3,088	1,695	955	623	435	305	210	165	63	40	11	2
		Females.	7,016	10,371	4,200	1,547	893	591	390	264	184	111	55	18	2	2	9
.....	60	Total....	27	32	31	9	6	7	5	2	1	....	....	....	....	..	..
		Males....	1	15	27	4	4	4	2	2	1	....	....	....	....	..	..
		Females.	26	17	4	5	2	3	3	....	....	....	....	....	....	..	..
.....	56	Total....	20	34	32	11	8	3	2	....	2	....	....	....	....	..	..
		Males....	2	13	23	10	3	3	1	....	1	....	....	....	....	..	..
		Females.	18	21	9	1	5	.....	1	....	1	....	....	....	....	..	..
.....	332	Total....	117	270	130	47	32	23	10	15	10	5	4	1	....	..	..
		Males....	14	135	89	27	23	13	6	10	8	4	2	1	....	..	..
		Females.	103	135	41	20	9	10	4	5	2	1	2	....	....	..	..
.....	195	Total....	75	155	68	28	21	13	11	10	6	1	1	1	....	..	..
		Males....	4	81	49	18	16	9	6	5	5	1	1	....	....	..	.
		Females.	71	74	19	10	5	4	5	5	1	....	....	1	....	..	..
.....	142	Total....	61	101	62	25	8	11	5	6	....	1	4	....	....	..	..
		Males....	2	52	50	15	4	7	4	5	....	....	3	....	....	..	..
		Females.	59	49	12	10	4	4	1	1	....	1	1	....	....	..	..
.....	81	Total....	34	62	38	10	3	4	6	4	....	....	1	....	....	..	..
		Males....	2	31	29	7	2	3	4	2	....	....	1	....	....	..	..
		Females.	32	31	9	3	1	1	2	2	....	....	....	....	....	..	..
.....	42	Total....	15	31	21	11	4	1	1	....	....	....	....	....	....	..	..
		Males....	2	14	13	8	3	1	1	....	....	....	....	....	....	..	..
		Females.	13	17	8	3	1	.....	.....	....	....	....	....	....	....	..	..
.....	234	Total....	85	170	94	38	12	11	15	18	6	9	4	5	1	..	..
		Males....	6	97	58	28	6	6	7	10	3	6	4	3	....	..	..
		Females.	79	73	36	10	6	5	8	8	3	3	....	2	1	..	..
.....	584	Total....	170	492	308	84	48	28	19	2	7	4	2	4	....	..	..
		Males....	7	237	200	58	35	20	13	2	5	3	1	3	....	..	..
		Females.	163	255	108	26	13	8	6	....	2	1	1	1	....	..	..
.....	106	Total....	39	83	41	15	13	9	3	4	4	1	....	....	....	..	..
		Males....	1	43	27	11	9	6	3	2	3	1	....	....	....	..	..
		Females.	38	40	14	4	4	3	.....	2	1	....	....	....	....	..	..
.....	1,474	Total....	391	1,110	690	329	209	106	51	31	10	8	8	2	2	1	..
		Males....	31	533	424	208	128	68	38	19	8	6	7	1	2	1	..
		Temales.	360	577	266	121	81	38	13	12	2	2	1	1	....	..	..
.....	258	Total....	83	203	94	39	21	21	18	14	9	5	4	2	2	1	..
		Males....	9	108	61	23	13	8	14	7	4	3	3	2	2	1	..
		Females.	74	95	33	16	8	13	4	7	5	2	1	....	....	..	..
.....	600	Total....	163	467	251	132	66	34	31	18	12	13	7	4	1	1	..
		Males....	10	227	163	82	44	19	20	12	7	5	6	3	1	1	..
		Females.	153	240	88	50	22	15	11	6	5	8	1	1	....	..	..
.....	226	Total....	76	186	78	40	23	10	9	9	9	8	4	....	....	..	..
		Males....	7	97	54	21	15	6	7	5	5	5	4	....	....	..	..
		Females.	69	89	24	19	8	4	2	4	4	3	....	....	....	..	..
ix.....	150	Total....	53	111	60	30	14	11	8	6	3	2	1	....	1	..	..
		Males....	3	53	39	25	9	7	6	3	1	2	1	....	1	..	..
		Females.	50	58	21	5	5	4	2	3	2	....	....	....	....	..	..
m.....	142	Total....	50	118	53	22	15	8	6	6	5	1	....	....	....	..	..
		Males....	1	59	39	14	11	6	5	4	2	1	....	....	....	..	..
		Females.	49	59	14	8	4	2	1	2	3	....	....	....	....	..	..
s.....	266	Total....	75	204	150	54	25	9	14	....	1	....	....	....	....	..	..
		Males....	4	87	103	38	17	8	8	....	1	....	....	....	....	..	..
		Females.	71	117	47	16	8	1	6	....	....	....	....	....	....	..	..

Table II.—Continued.—Persons married in Michigan, by ages, counties and sex, during the year 1902.

State and counties.	Total marriages, 1902.	Sex.	Number of persons married, by periods of age, 1902.														
			Under 20 years.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.
Clare	78	Total	41	52	27	14	4	7	3	....	4	1	1	1	....	1	..
		Males	6	28	20	11	4	2	2	....	2	1	1	....	....	1	..
		Females	35	24	7	3	.....	5	1	....	2	....	....	1	....	..	..
Clinton	228	Total	71	202	100	29	22	11	4	7	1	5	2	2	....	..	..
		Males	4	108	62	21	15	6	2	3	1	3	1	2	....	..	..
		Females	67	94	38	8	7	5	2	4	....	2	1	....	....	..	..
Crawford	31	Total	12	23	9	7	2	3	2	2	....	1	1	....	....	..	..
		Males	.....	13	4	5	2	3	1	2	....	1	....	....	....	..	..
		Females	12	10	5	2	.....	.....	1	....	....	....	1	....	....	..	..
Delta	238	Total	73	179	116	52	24	12	12	2	4	1	1	....	....	..	..
		Males	.....	83	82	35	19	7	6	2	2	1	1	....	....	..	..
		Females	73	96	34	17	5	5	6	....	2	....	....	....	....	..	..
Dickinson	242	Total	68	193	132	39	28	12	5	4	3	....	....	....	....	..	..
		Males	1	85	92	31	18	7	4	2	2	....	....	....	....	..	..
		Females	67	108	40	8	10	5	1	2	1	....	....	....	....	..	..
Eaton	346	Total	138	265	140	42	27	23	16	12	9	11	4	1	4	..	..
		Males	15	147	96	26	13	14	10	9	2	7	3	1	3	..	..
		Females	123	118	44	16	14	9	6	3	7	4	1	....	1	..	..
Emmet	213	Total	82	153	84	46	23	18	4	7	5	4	....	....	....	..	..
		Males	8	80	54	31	14	12	3	4	4	3	....	....	....	..	..
		Females	74	73	30	15	9	6	1	3	1	1	....	....	....	..	..
Genesee	451	Total	114	379	206	79	45	26	13	7	12	10	5	3	2	1	..
		Males	8	182	129	53	27	13	11	6	9	5	3	3	2	..	..
		Females	106	197	77	26	18	13	2	1	3	5	2	....	....	1	..
Gladwin	67	Total	33	45	21	9	7	5	5	3	5	....	1	....	....	..	..
		Males	.....	29	14	7	6	1	4	2	3	....	1	....	....	..	..
		Females	33	16	7	2	1	4	1	1	2	....	....	....	....	..	..
Gogebic	232	Total	74	201	111	43	21	9	2	2	....	....	....	....	....	..	1
		Males	6	88	85	33	14	3	1	2	....	....	....	....	....	..	..
		Females	68	113	26	10	7	6	1	....	....	....	....	....	....	..	1
Grand Traverse	248	Total	86	187	113	44	21	14	11	5	11	2	1	....	....	..	1
		Males	3	95	78	30	13	10	8	3	5	2	1	....	....	..	..
		Females	83	92	35	14	8	4	3	2	6	....	....	....	....	..	1
Gratiot	376	Total	162	302	118	62	30	20	13	13	12	12	5	2	1	..	..
		Males	14	176	75	44	21	14	5	8	6	8	2	2	1	..	..
		Females	148	126	43	18	9	6	8	5	6	4	3	....	....	..	..
Hillsdale	300	Total	101	234	97	54	33	23	22	16	7	5	7	....	1	..	..
		Males	13	126	62	29	24	9	9	12	6	5	4	....	1	..	..
		Females	88	108	35	25	9	14	13	4	1	....	3	....	....	..	..
Houghton	698	Total	161	609	387	146	60	17	7	5	4	....	....	....	....	..	..
		Males	4	257	263	106	43	13	5	5	2	....	....	....	....	..	..
		Females	157	352	124	40	17	4	2	....	2	....	....	....	....	..	..
Huron	284	Total	88	241	133	48	23	12	6	7	4	3	2	....	....	..	1
		Males	3	112	96	39	11	9	4	4	2	2	2	....	....	..	..
		Females	85	129	37	9	12	3	2	3	2	1	....	....	....	..	1
Ingham	456	Total	130	381	191	76	49	33	16	21	5	2	4	2	1	..	1
		Males	7	201	112	55	30	17	9	15	3	1	3	2	1	..	..
		Females	123	180	79	21	19	16	7	6	2	1	1	....	....	..	1
Ionia	361	Total	114	290	143	63	29	27	17	13	8	8	8	1	....	1	..
		Males	11	152	87	43	18	14	10	8	5	5	6	1	....	1	..
		Females	103	138	56	20	11	13	7	5	3	3	2	....	....	..	..
Iosco	80	Total	26	63	28	14	13	8	3	3	....	....	2	....	....	..	..
		Males	1	29	21	10	8	6	1	3	....	....	1	....	....	..	..
		Females	25	34	7	4	5	2	2	....	....	....	1	....	....	..	..

Table II.—Continued.—Persons married in Michigan, by ages, counties and sex, during the year 1902.

State and counties.	Total marriages, 1902.	Sex.	Number of persons married, by periods of age, 1902.														
			Under 20 years.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.
Iron	108	Total	36	100	55	17	5			1			2				
		Males	1	49	41	12	3			1			1				
		Females	35	51	14	5	2						1				
Isabella	210	Total	89	158	69	21	25	20	15	6	5	3	6	1	1	1	
		Males	9	85	46	19	16	11	7	5	4	2	4		1	1	
		Females	80	73	23	2	9	9	8	1	1	1	2	1			
Jackson	517	Total	111	382	272	103	67	31	24	8	9	12	12	3			
		Males	11	173	157	70	43	21	11	6	5	7	10	3			
		Females	100	209	115	33	24	10	13	2	4	5	2				
Kalamazoo	531	Total	115	411	233	108	67	42	22	21	14	14	13	1		1	
		Males	8	202	136	67	45	23	14	9	6	10	9	1		1	
		Females	107	209	97	41	22	19	8	12	8	4	4				
Kalkaska	98	Total	38	70	43	13	9	8	4	6	4	1					
		Males	3	40	28	7	5	6	2	3	3	1					
		Females	35	30	15	6	4	2	2	3	1						
Kent	1,580	Total	407	1,272	774	246	170	92	74	49	40	20	13	2	1		
		Males	28	615	482	156	117	57	40	31	27	14	10	2	1		
		Females	379	657	292	90	53	35	34	18	13	6	3				
Keweenaw	17	Total	6	14	9	4		1									
		Males		6	6	4		1									
		Females	6	8	3												
Lake	52	Total	23	34	19	5	2	8	3	3	2	4			1		
		Males	1	20	12	4	2	5	1	2	2	2			1		
		Females	22	14	7	1		3	2	1		2					
Lapeer	268	Total	81	202	118	52	26	19	13	7	5	3	6	3	1		
		Males	3	103	72	36	17	12	9	4	3	2	4	2	1		
		Females	78	99	46	16	9	7	4	3	2	1	2	1			
Leelanau	84	Total	34	50	38	11	13	5	8	4	2	3					
		Males	1	30	24	7	8	2	6	2	2	2					
		Females	33	20	14	4	5	3	2	2		1					
Lenawee	473	Total	136	407	205	81	46	24	18	13	6	6	3	1			
		Males	11	211	129	43	34	13	10	9	4	6	2	1			
		Females	125	196	76	38	12	11	8	4	2		1				
Livingston	183	Total	41	139	83	32	18	13	8	13	5	5	6	2		1	
		Males	4	62	52	23	12	6	5	7	2	2	5	2		1	
		Females	37	77	31	9	6	7	3	6	3	3	1				
Luce	30	Total	4	25	20	5	4	2									
		Males		9	13	3	4	1									
		Females	4	16	7	2		1									
Mackinac	60	Total	27	33	31	18	7			1	1	1	1				
		Males	1	18	21	12	6				1		1				
		Females	26	15	10	6	1			1		1					
Macomb	253	Total	53	194	138	44	33	12	10	3	9	5	2	1	2		
		Males	4	81	95	24	20	9	6	2	5	3	2		2		
		Females	49	113	43	20	13	3	4	1	4	2		1			
Manistee	218	Total	82	158	114	36	18	13	5	6	3	1					
		Males	2	85	74	27	11	10	3	4	2						
		Females	80	73	40	9	7	3	2	2	1	1					
Marquette	362	Total	99	290	185	84	37	14	5	9	1						
		Males	7	129	123	56	29	7	3	8							
		Females	92	161	62	28	8	7	2	1	1						
Mason	154	Total	45	112	76	29	11	17	7	5	4	1			1		
		Males	2	50	52	19	8	11	4	4	2	1			1		
		Females	43	62	24	10	3	6	3	1	2						

Table II.—Continued.—Persons married in Michigan, by ages, counties and sex, during the year 1902.

State and counties.	Total marriages, 1902.	Sex.	Number of persons married, by periods of age, 1902.												
			Under 20 years.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	7
Mecosta	197	Total	81	168	70	31	11	11	4	8	6	3	1		
		Males	4	84	58	23	7	7	3	5	2	3	1		
		Females	77	84	12	8	4	4	1	3	4				
Menominee	400	Total	148	308	175	58	52	28	18	7	5	1			
		Males	11	150	123	39	35	19	14	5	3	1			
		Females	137	158	52	19	17	9	4	2	2				
Midland	133	Total	63	91	49	22	11	12	9	5	2	1			
		Males	8	47	35	16	5	9	7	3	1	1			
		Females	55	44	14	6	6	3	2	2	1				
Missaukee	81	Total	46	53	30	11	10	3	2	2	1	1	2		
		Males	3	32	25	5	9	2	1	1		1	1		
		Females	43	21	5	6	1	1	1	1	1		1		
Monroe	504	Total	140	398	213	103	60	41	24	10	8	2	3	6	
		Males	10	194	138	66	35	24	18	6	5	1	2	5	
		Females	130	204	75	37	25	17	6	4	3	1	1	1	
Montcalm	336	Total	135	227	131	61	29	20	13	22	17	8	3	4	
		Males	15	125	87	40	15	13	7	12	10	4	3	3	
		Females	120	102	44	21	14	7	6	10	7	4		1	
Montmorency	21	Total	8	10	12	7		2	1	2					
		Males		5	8	5		2		1					
		Females	8	5	4	2			1	1					
Muskegon	361	Total	101	287	187	63	36	20	16	6	4	1	1		
		Males	7	130	124	40	24	13	14	4	3	1	1		
		Females	94	157	63	23	12	7	2	2	1				
Newaygo	168	Total	60	106	79	34	18	8	6	8	8	3	3		
		Males	3	53	56	19	13	4	3	6	4	2	2		
		Females	57	53	23	15	5	4	3	2	4	1	1		
Oakland	357	Total	68	278	187	73	33	20	20	6	9	11	4	4	
		Males	3	122	121	42	24	10	13	4	5	6	3	3	
		Females	65	156	66	31	9	10	7	2	4	5	1	1	
Oceana	162	Total	50	130	57	29	13	14	4	10	8	4	4	1	
		Males	2	70	35	20	8	8	2	5	6	2	3	1	
		Females	48	60	22	9	5	6	2	5	2	2	1		
Ogemaw	72	Total	30	56	29	12	5	6	1		1	2	2		
		Males	1	29	20	11	5	2	1		1	1	1		
		Females	29	27	9	1		4				1	1		
Ontonagon	74	Total	19	63	40	11	9	5	1						
		Males		28	26	8	8	3	1						
		Females	19	35	14	3	1	2							
Osceola	179	Total	68	144	81	26	18	7	6	5	3				
		Males	6	73	57	17	13	4	4	2	3				
		Females	62	71	24	9	5	3	2	3					
Oscoda	12	Total	5	9	5	2	2		1						
		Males		4	4	2	1		1						
		Females	5	5	1		1								
Otsego	67	Total	41	36	33	9	4	5	3	3					
		Males	4	23	23	8	3	2	3	1					
		Females	37	13	10	1	1	3		2					
Ottawa	382	Total	82	299	216	66	29	25	15	6	13	10	2	1	
		Males	6	139	124	51	15	15	12	3	9	5	2	1	
		Females	76	160	92	15	14	10	3	3	4	5			
Presque Isle	80	Total	31	76	32	12	1	2	2	1	1		1	1	
		Males		38	26	10	1	2	1		1			1	
		Females	31	38	6	2			1	1			1		

Table II.—Concluded.—Persons married in Michigan, by ages, counties and sex, during the year 1902.

State and counties.	Total marriages, 1902.	Sex.	Number of persons married, by periods of age, 1902.															
			Under 20 years.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.
Roscommon...	15	Total....	9	13	4	3	1	.....	.....	....	....	....	....	....	....	..	..
		Males....	.....	9	3	3	.....	.....	.....	....	....	....	....	....	....	..	..
		Females.	9	4	1	.....	1	.....	.....	....	....	....	....	....	....	..	..
Saginaw.....	845	Total....	240	670	409	164	81	50	24	19	15	10	4	1	....	..	3
		Males....	14	318	260	112	58	35	15	10	10	8	3	1	....	..	1
		Females.	226	352	149	52	23	15	9	9	5	2	1	....	....	..	2
St. Clair.....	540	Total....	115	406	274	109	77	38	11	12	12	10	8	3	3	2	..
		Males....	4	187	174	61	49	26	7	5	8	7	5	3	3	1	..
		Females.	111	219	100	48	28	12	4	7	4	3	3	....	....	1	..
St. Joseph.....	227	Total....	78	168	104	41	20	16	11	5	7	2	2	....	....	..	..
		Males....	11	87	63	25	15	11	5	3	3	2	2	....	....	..	..
		Females.	67	81	41	16	5	5	6	2	4	....	....	....	....	..	..
Sanilac.....	326	Total....	122	275	162	45	16	12	5	2	4	4	....	2	1	..	2
		Males....	6	141	114	34	9	9	3	2	2	3	....	1	1	..	1
		Females.	116	134	48	11	7	3	2	....	2	1	....	1	....	..	1
Schoolcraft....	53	Total....	22	42	21	8	7	2	.....	2	2	....	....	....	....	..	..
		Males....	1	22	17	5	5	1	.....	1	1	....	....	....	....	..	..
		Females.	21	20	4	3	2	1	.....	1	1	....	....	....	....	..	..
Shiawassee....	345	Total....	103	288	149	46	37	19	18	11	7	5	4	1	1	1	..
		Males....	4	143	103	32	19	12	11	7	5	4	3	....	1	1	..
		Females.	99	145	46	14	18	7	7	4	2	1	1	1	....	..	..
Tuscola.....	347	Total....	129	286	138	41	25	21	16	18	9	4	4	1	2	..	..
		Males....	10	141	105	30	13	17	9	9	6	1	3	1	2	..	..
		Females.	119	145	33	11	12	4	7	9	3	3	1	....	....	..	..
Van Buren.....	332	Total....	120	237	118	70	35	20	23	13	8	10	5	3	1	1	..
		Males....	13	125	74	51	21	11	9	8	7	6	4	1	1	1	..
		Females.	107	112	44	19	14	9	14	5	1	4	1	2	....	..	..
Washtenaw....	353	Total....	72	252	203	76	38	24	16	6	7	8	2	1	....	..	1
		Males....	6	121	105	59	23	13	8	6	4	5	2	1	....	..	..
		Females.	66	131	98	17	15	11	8	....	3	3	....	....	....	..	1
Wayne.....	3,424	Total....	712	2,790	1,816	676	351	193	146	78	41	19	16	6	3	..	1
		Males....	36	1,255	1,141	438	232	122	87	50	29	13	13	5	3	..	..
		Females.	676	1,535	675	238	119	71	59	28	12	6	3	1	....	..	1
Wexford.....	185	Total....	78	140	89	26	12	12	6	3	2	....	1	1	....	..	..
		Males....	1	78	60	21	8	10	3	1	1	....	1	1	....	..	..
		Females.	77	62	29	5	4	2	3	2	1	....	....	....	....	..	..

Table III.—Marriages and persons married in Michigan, by nativity and counties, during the year 1902.

State and counties.	Total marriages, 1902.	Marriages, by nativity, 1902.									Persons married, by nativity, 1902.					
		Both native born.	Both foreign born.	Foreign male, native female.	Foreign female, native male.	Female unk.		Male unk.		Both unknown.	Native born.		Foreign born.		Unk.	
						Male.		Female.								
						Native.	Foreign	Native.	Foreign.		Males.	Females.	Males.	Females.	Males.	Females.
STATE	25,653	16,675	3,301	3,365	1,957	285	62	4	1	3	18,917	20,044	6,728	5,259	8	350
Alcona	60	12	22	19	7	....	....	....	....	....	19	31	41	29	....	....
Alger	56	18	17	14	7	....	....	....	....	....	25	32	31	24	....	....
Allegan	332	285	7	25	13	2	....	....	....	....	300	310	32	20	....	2
Alpena	195	91	30	41	29	4	....	....	....	....	124	132	71	59	....	4
Antrim	142	86	10	21	9	12	3	....	....	1	107	107	34	19	1	16
Arenac	81	44	5	17	13	1	1	....	....	....	58	61	23	18	....	2
Baraga	42	15	19	8	....	....	....	....	....	....	15	23	27	19	....	....
Barry	234	216	....	13	2	3	....	....	....	....	221	229	13	2	....	3
Bay	584	325	77	112	62	5	2	1	....	....	392	438	191	139	1	7
Benzie	106	85	6	12	2	1	....	....	....	....	88	97	18	8	....	1
Berrien	1,474	1,030	138	162	120	21	3	....	....	....	1,171	1,192	303	258	....	24
Branch	258	236	3	12	6	1	....	....	....	....	243	248	15	9	....	1
Calhoun	600	524	8	43	18	6	1	....	....	....	548	567	52	26	....	7
Cass	226	203	1	9	4	8	1	....	....	....	215	212	11	5	....	9
Charlevoix	150	99	7	20	18	3	3	....	....	....	120	119	30	25	....	6
Cheboygan	142	74	19	29	20	....	....	....	....	....	94	103	48	39	....	....
Chippewa	266	52	123	50	40	....	1	....	....	....	92	102	174	163	....	1
Clare	78	49	6	5	9	8	1	....	....	....	66	54	12	15	....	9
Clinton	228	201	3	14	6	3	....	1	....	....	210	216	17	9	1	3
Crawford	31	13	6	10	2	....	....	....	....	....	15	23	16	8	....	....
Delta	238	89	79	51	13	5	1	....	....	....	107	140	131	92	....	6
Dickinson	242	53	145	35	8	....	1	....	....	....	61	88	181	153	....	1
Eaton	346	319	2	17	8	....	....	....	....	....	327	336	19	10	....	....
Emmet	213	152	6	39	16	....	....	....	....	....	168	191	45	22	....	....
Genesee	451	348	15	52	29	6	1	....	....	....	383	400	68	44	....	7
Gladwin	67	40	5	11	6	1	4	....	....	....	47	51	20	11	....	5
Gogebic	232	48	158	17	8	....	1	....	....	....	56	65	176	166	....	1
Grand Traverse	248	191	12	29	16	....	....	....	....	....	207	220	41	28	....	....
Gratiot	376	306	1	23	17	26	2	....	....	1	349	329	26	18	1	29
Hillsdale	300	250	2	10	6	30	2	....	....	....	286	260	14	8	....	32
Houghton	698	177	360	111	49	....	....	1	....	....	226	289	471	409	1	....
Huron	284	140	52	55	37	....	....	....	....	....	177	195	107	89	....	....
Ingham	456	388	11	24	24	3	5	....	1	....	415	412	40	36	1	8
Ionia	361	320	3	22	14	2	....	....	....	....	336	342	25	17	....	2
Iosco	80	33	12	22	13	....	....	....	....	....	46	55	34	25	....	....
Iron	108	17	67	14	10	....	....	....	....	....	27	31	81	77	....	....
Isabella	210	157	7	25	17	3	1	....	....	....	177	182	33	24	....	4
Jackson	517	414	9	55	34	4	1	....	....	....	452	469	65	43	....	5
Kalamazoo	531	421	28	51	25	6	....	....	....	....	452	472	79	53	....	6
Kalkaska	98	73	1	11	13	....	....	....	....	....	86	84	12	14	....	....
Kent	1,580	1,020	186	238	133	1	....	1	....	1	1,154	1,259	424	319	2	2
Keweenaw	17	6	8	3	....	....	....	....	....	....	6	9	11	8	....	....
Lake	52	38	3	8	3	....	....	....	....	....	41	46	11	6	....	....
Lapeer	268	205	16	30	17	....	....	....	....	....	222	235	46	33	....	....
Leelanau	84	66	8	7	3	....	....	....	....	....	69	73	15	11	....	....
Lenawee	473	411	8	27	12	14	1	....	....	....	437	438	36	20	....	15
Livingston	183	159	5	9	8	2	....	....	....	....	169	168	14	13	....	2
Luce	30	3	19	6	2	....	....	....	....	....	5	9	25	21	....	....
Mackinac	60	30	9	12	6	2	1	....	....	....	38	42	22	15	....	3
Macomb	253	173	16	33	30	1	....	....	....	....	204	206	49	46	....	1

I.—Concluded.—Marriages and persons married in Michigan, by nativity and counties, during the year 1902.

e ities.	Total marriages, 1902.	Marriages, by nativity, 1902.									Persons married, by nativity, 1902.					
		Both native born.	Both foreign born.	Foreign male, native female.	Foreign female, native male.	Female unk.		Male unk.		Both unknown.	Native born.		Foreign born.		Unk.	
						Male.		Female.								
						Native.	Foreign	Native.	Foreign.		Males.	Females.	Males.	Females.	Males.	Females.
.....	218	114	30	47	20	7	....	....	....	....	141	161	77	50	....	7
.....	362	90	171	69	31	1	....	....	....	....	122	159	240	202	....	1
.....	154	104	14	20	14	2	....	....	....	....	120	124	34	28	....	2
.....	197	162	6	21	7	1	....	....	....	....	170	183	27	13	....	1
.....	400	232	61	70	28	4	5	....	....	....	264	302	136	89	....	9
.....	133	102	4	20	7	....	....	....	....	....	109	122	24	11	....	....
.....	81	62	4	11	4	....	....	....	....	....	66	73	15	8	....	....
.....	504	437	14	34	17	1	1	....	....	....	455	471	49	31	....	2
.....	336	268	10	32	19	7	....	....	....	....	294	300	42	29	....	7
cy.....	21	9	5	5	2	....	....	....	....	....	11	14	10	7	....	....
.....	361	229	39	60	33	....	....	....	....	....	262	289	99	72	....	....
.....	168	138	4	13	13	....	....	....	....	....	151	151	17	17	....	....
.....	357	268	9	35	18	24	3	....	....	....	310	303	47	27	....	27
.....	162	123	3	18	6	10	2	....	....	....	139	141	23	9	....	12
.....	72	38	8	17	6	2	1	....	....	....	46	55	26	14	....	3
.....	74	25	34	7	7	1	....	....	....	....	33	32	41	41	....	1
.....	179	125	9	23	20	1	1	....	....	....	146	148	33	29	....	2
.....	12	11	.....	1	.....	....	....	....	....	....	11	12	1	.....	....	....
.....	67	47	4	10	4	2	....	....	....	....	53	57	14	8	....	2
.....	382	249	37	65	26	5	....	....	....	....	280	314	102	63	....	5
e.....	80	53	8	10	6	2	1	....	....	....	61	63	19	14	....	3
n.....	15	11	1	.....	3	....	....	....	....	....	14	11	1	4	....	....
.....	845	533	74	159	75	2	2	....	....	....	610	692	235	149	....	4
.....	540	275	107	103	50	4	1	....	....	....	329	378	211	157	....	5
.....	227	211	3	8	3	2	....	....	....	....	216	219	11	6	....	2
.....	326	162	37	87	39	1	....	....	....	....	202	249	124	76	....	1
.....	53	19	11	13	9	1	....	....	....	....	29	32	24	20	....	1
.....	345	282	10	23	25	3	2	....	....	....	310	305	35	35	....	5
.....	347	234	24	51	33	4	1	....	....	....	271	285	76	57	....	5
.....	332	298	8	16	4	5	1	....	....	....	307	314	25	12	....	6
.....	353	281	11	34	20	5	2	....	....	....	306	315	47	31	....	7
.....	3,424	1,655	767	572	430	....	....	....	....	....	2,085	2,227	1,339	1,197	....	....
.....	185	123	14	28	14	4	2	....	....	....	141	151	44	28	....	6

Table IV.—Marriages in Michigan, by age periods, during the year 1902.

Ages of males married, 1902.	Ages of females married, 1902.															Total males.	Per cent of males [redacted]
	Under 20.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.		
Under 20	395	94	4	....	....	1	....	....	....	....	....	....	....	....	1	495	1.9
20 to 24	4,317	4,922	510	46	8	6	2	....	....	....	....	....	....	....	3	9,814	38.3
25 to 29	1,758	3,750	1,916	250	60	10	5	....	1	....	....	....	....	....	2	7,752	30.2
30 to 34	381	1,052	971	520	122	33	6	2	....	....	....	....	....	....	1	3,088	12.0
35 to 39	102	372	484	355	271	80	23	4	2	2	....	....	....	....	....	1,695	6.6
40 to 44	40	107	191	213	184	162	44	10	4	....	....	....	....	....	....	955	3.7
45 to 49	16	50	74	101	130	127	88	32	3	2	....	....	....	....	....	623	2.4
50 to 54	4	15	37	43	65	82	88	72	22	6	....	1	....	....	....	435	1.7
55 to 59	2	7	8	14	32	49	57	64	56	13	3	....	....	....	....	305	1.2
60 to 64	1	2	2	4	12	21	38	46	37	38	8	1	....	....	....	210	0.8
65 to 69	....	....	2	1	8	14	30	23	40	26	20	1	....	....	....	165	0.6
70 to 74	....	....	....	....	1	3	8	10	8	14	12	6	1	....	....	63	0.2
75 to 79	....	....	....	....	....	3	1	1	8	10	9	6	1	1	....	40	0.2
80 and over	....	....	1	....	....	....	....	....	3	....	3	3	....	1	....	11	0.0
Unknown	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	2	0.0
Total females	7,016	10,371	4,200	1,547	893	591	390	264	184	111	55	18	2	2	9	25,653	....
Per cent	27.3	40.4	16.4	6.0	3.5	2.3	1.5	1.0	0.7	0.4	0.2	0.1	0.0	0.0	0.0	....	100.0

Probate marriages in Michigan, by ages of males and females, married during the year 1902.

married by judges of probate, 1902.	Ages of females married by judges of probate, 1902.											Total males.	Per cent of males at each age.
	Ages under 20 years.						Under 20.	20 to 24.	25 to 29.	30 to 34.	60 to 64.		
	14.	15.	16.	17.	18.	19.							
17 years	....	....	2	....	2	....	*4*	....	....	....	....	4	7.7
18 years	....	4	....	....	....	....	*4*	....	....	....	....	4	7.7
19 years	3	2	....	....	1	....	*6*	....	....	....	....	6	11.5
.....	*3*	*6*	*2*	....	*3*	....	*14*	....	....	....	....	*14*	*26.9*
.....	4	11	....	3	....	1	19	5	1	....	....	25	48.1
.....	1	6	....	....	1	....	8	....	1	....	....	9	17.3
.....	1	....	....	....	....	....	1	....	....	1	....	2	3.8
.....	....	....	....	....	....	....	....	....	....	1	....	1	1.9
.....	....	....	....	....	....	....	....	....	....	....	1	1	1.9
les.....	9	23	2	3	4	1	*42*	5	2	2	1	52	.....
.....	17.3	44.2	3.8	5.8	7.7	1.9	*80.8*	9.6	3.8	3.8	1.9	.....	100.0

ures in **bold face** indicate marriages at illegal ages, under the general laws of the State, for one or both parties.
arriages performed by judges of probate in Michigan during the year 1902 were distributed by months as follows: bruary, 7; March, 3; April, 4; May, 3; June, 2; July, 2; August, 5; September, 5; October, 6; November, 7 Decem- re white, with the exception of one black couple. By nativity, there were forty couples both native born; two reign born; seven couples with foreign male and native female; and three couples with foreign female and native narriages were returned from thirty-one counties, the largest number reported from a county being six. They d in the preceding tables of marriages.

TABLES

RELATING TO

DIVORCES

AND

CAUSES OF DIVORCE

IN

MICHIGAN

DURING THE

YEAR 1902.

PRIMARY TABLES RELATING TO DIVORCES AND CAUSES OF DIVORCE IN MICHIGAN DURING THE YEAR 1902.

TABLE I.—Divorce business in Michigan as reported by county clerks to the Department of State for the year 1902.

TABLE II.—Divorces in Michigan, by counties and sex of complainant, during the year 1902, showing place of marriage, number of children in family, and duration of marriage before divorce.

TABLE III.—Causes of divorce in Michigan, by sex of complainant, during the year 1902, showing place of marriage, number of children in family, and duration of marriage before divorce.

NOTE.—*Secondary tables*, containing divorce rates, etc., will be found on preceding pages of this Report, together with the descriptive text.

Table I.—Summary of divorce business in Michigan, as reported by the county clerks to the Department of State, for the year 1902.

State and counties.	Number of bills pending on January 1, 1902.	Number of bills filed during 1902.	Number of divorces granted during 1902.	Number of divorces refused during 1902.	Number of cases withdrawn during 1902.	Number of bills pending on December 31, 1902.	Total number of cases in court, 1902.	Number of cases contested during 1902.
STATE	4,857	4,183	2,828	43	280	5,869	9,040	[illegible]
Alcona	3	5	3	.....	.....	5	8	.....
Alger	24	6	4	.....	5	21	30	.....
Allegan	90	73	42	.....	4	117	163	12
Alpena	36	21	16	.....	1	40	57	.....
Antrim	26	38	25	.....	2	37	64	.....
Arenac	12	6	4	.....	.....	14	18	1
Baraga	1	1	1	.....	.....	1	2	1
Barry	48	52	46	.....	18	36	100	.....
Bay	70	67	54	.....	3	80	137	49
Benzie	11	23	18	.....	.....	16	34	.....
Berrien	115	131	77	5	.....	164	246	23
Branch	72	56	40	.....	3	85	128	2
Calhoun	150	122	89	.....	5	178	272	13
Cass	23	43	33	2	1	30	66	21
Charlevoix	37	19	14	.....	.....	42	56	.....
Cheboygan	24	11	9	.....	.....	26	35	2
Chippewa	39	24	15	1	3	44	63	3
Clare	11	7	8	.....	4	6	18	1
Clinton	92	40	21	.....	6	105	132	.....
Crawford	.....	6	2	.....	.....	4	6	.....
Delta	31	34	18	.....	1	46	65	2
Dickinson	10	8	9	.....	1	8	18	1
Eaton	67	83	56	1	18	75	150	.....
Emmet	40	25	16	1	2	46	65	1
Genesee	210	113	75	1	25	222	323	.....
Gladwin	11	5	3	.....	1	12	16	.....
Gogebic	49	15	14	.....	1	49	64	.....
Grand Traverse	54	50	37	.....	1	66	104	.....
Gratiot	89	79	74	.....	7	87	168	.....
Hillsdale	42	48	41	1	.....	48	90	[illegible]
Houghton	50	33	21	.....	2	60	83	[illegible]
Huron	13	16	11	.....	4	14	29	.....
Ingham	144	84	51	2	1	174	228	.....
Ionia	128	66	47	1	1	145	194	1[illegible]
Iosco	9	8	3	.....	3	11	17	[illegible]
Iron	10	8	6	.....	.....	12	18	.....
Isabella	19	41	27	.....	2	31	60	.....
Jackson	121	115	81	1	2	152	236	1
Kalamazoo	49	114	88	1	4	70	163	46
Kalkaska	26	18	14	.....	.....	30	44	.....
Kent { Circuit	425	355	228	4	.....	548	780	34
Kent { Superior court	31	13	11	.....	.....	33	44	2
Keweenaw	.....	3	.....	.....	.....	3	3	.....
Lake	9	7	8	.....	.....	8	16	.....
Lapeer	55	28	21	.....	.....	62	83	.....
Leelanau	5	3	5	.....	.....	3	8	1
Lenawee	119	96	58	.....	4	153	215	1
Livingston	20	29	23	.....	2	24	49	3
Luce	9	.....	1	.....	.....	8	9	.....
Mackinac	7	8	4	.....	1	10	15	.....
Macomb	89	49	34	.....	6	98	138	9
Manistee	33	15	15	1	.....	32	48	5
Marquette	31	14	12	.....	1	32	45	3
Mason	15	17	4	1	6	21	32	2
Mecosta	37	21	19	.....	.....	39	58	1
Menominee	14	13	8	.....	.....	19	27	.....

I.—Concluded.—Summary of divorce business in Michigan, as reported by the county clerks to the Department of State, for the year 1902.

: and counties.	Number of bills pending on January 1, 1902.	Number of bills filed during 1902.	Number of divorces granted during 1902.	Number of divorces refused during 1902.	Number of cases with-drawn during 1902.	Number of bills pending on December 31, 1902.	Total number of cases in court, 1902.	Number of cases con-tested during 1902.
.....	13	13	10	.....	.....	16	26	2
.....	18	21	14	.....	3	22	39	.....
.....	45	36	25	.....	8	48	81	.....
.....	72	74	54	.....	7	85	146	10
ncy.....	6	3	3	.....	2	4	9	.....
.....	74	65	40	1	10	88	139	4
.....	18	26	19	1	.....	24	44	2
.....	36	82	32	.....	2	84	118	9
.....	43	20	18	1	2	42	63	3
.....	.....	9	7	.....	.....	2	9	.....
.....	2	4	3	.....	.....	3	6	1
.....	21	18	13	.....	3	23	39	1
.....	.....	2	.....	.....	.....	2	2	.....
.....	6	4	6	.....	.....	4	10	.....
.....	39	30	21	.....	.....	48	69	.....
de.....	17	6	10	.....	1	12	23	.....
on.....	.....	3	1	.....	.....	2	3	.....
.....	197	152	102	.....	6	241	349	6
.....	267	106	82	4	15	272	373	19
.....	27	21	26	1	6	15	48	.....
.....	31	31	18	.....	1	43	62	.....
t.....	14	10	4	.....	1	19	24	.....
e.....	78	106	68	.....	14	102	184	.....
.....	74	52	32	.....	15	79	126	14
n.....	84	83	48	1	4	114	167	8
w.....	68	49	37	.....	.....	80	117	.....
.....	611	711	444	10	29	839	1,322	78
.....	41	61	27	1	.....	74	102	3

Table II—Divorces in Michigan, by counties and sex of complainant, during th

State and counties.	Sex of complainants.	Complainants in divorces granted, 1902.	Place of marriage.						Numbe						
			Michigan.	Ohio, Indiana, Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.
STATE.....	Total.....	2,828	2,280	107	173	208	29	31	1,374	669	354	189	93	51	36
	Males.....	817	644	30	56	60	13	14	474	149	100	45	24	8	4
	Females...	2,011	1,636	77	117	148	16	17	900	520	254	144	69	43	32
Alcona.....	Total.....	3	2	1	....	....	....	....	1	1	....	....	....	1	....
	Males.....	1	....	1	....	....	....	....	....	1	....	....	....	....	....
	Females...	2	2	....	....	....	....	....	1	....	....	....	....	1	....
Alger.....	Total.....	4	2	2	....	....	....	....	1	1	1	....	....	1	....
	Males.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females...	4	2	2	....	....	....	....	1	1	1	....	....	1	....
Allegan.....	Total.....	42	37	3	2	....	....	....	23	10	5	2	1	1	....
	Males.....	13	12	....	1	....	....	....	9	2	1	1	....	....	....
	Females...	29	25	3	1	....	....	....	14	8	4	1	1	1	....
Alpena.....	Total.....	16	12	....	3	....	1	....	7	5	1	1	2	....	....
	Males.....	3	1	....	1	....	1	....	1	....	1	....	1	....	....
	Females...	13	11	....	2	....	....	....	6	5	....	1	1	....	....
Antrim.....	Total.....	25	21	1	2	....	....	1	14	5	4	....	1	1	....
	Males.....	12	8	1	2	....	....	1	6	3	2	....	1	....	....
	Females...	13	13	....	....	....	....	....	8	2	2	....	....	1	....
Arenac.....	Total.....	4	3	....	....	1	....	....	1	1	1	....	....	....	1
	Males.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females...	4	3	....	....	1	....	....	1	1	1	....	....	....	1
Baraga.....	Total.....	1	1	....	....	....	....	....	1	....	....	....	....	....	....
	Males.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females...	1	1	....	....	....	....	....	1	....	....	....	....	....	....
Barry.....	Total.....	46	40	2	3	1	....	....	19	7	5	4	5	1	1
	Males.....	15	11	2	1	1	....	....	7	4	....	2	1	....	....
	Females...	31	29	....	2	....	....	....	12	3	5	2	4	1	1
Bay.....	Total.....	54	48	1	3	2	....	....	21	14	6	6	2	1	3
	Males.....	11	9	1	1	....	....	....	5	3	....	1	....	1	1
	Females...	43	39	....	2	2	....	....	16	11	6	5	2	....	2
Benzie.....	Total.....	18	15	2	....	....	1	....	10	6	1	1	....	....	....
	Males.....	9	7	2	....	....	....	....	5	4	....	....	....	....	....
	Females...	9	8	....	....	....	1	....	5	2	1	1	....	....	....
Berrien.....	Total.....	77	55	4	11	1	1	5	27	25	14	2	1	....	3
	Males.....	19	14	....	3	1	....	1	5	6	6	....	....	....	1
	Females...	58	41	4	8	....	1	4	22	19	8	2	1	....	2
Branch.....	Total.....	40	35	2	3	....	....	....	19	8	7	3	2	1	....
	Males.....	12	11	....	1	....	....	....	7	1	2	1	1	....	....
	Females...	28	24	2	2	....	....	....	12	7	5	2	1	1	....
Calhoun.....	Total.....	89	75	6	4	2	1	1	47	22	13	4	3	....	....
	Males.....	26	21	2	1	....	1	1	20	2	4	....	....	....	....
	Females...	63	54	4	3	2	....	....	27	20	9	4	3	....	....
Cass.....	Total.....	33	29	1	2	1	....	....	14	10	5	1	1	....	....
	Males.....	9	9	....	....	....	....	....	5	1	2	....	1	....	....
	Females...	24	20	1	2	1	....	....	9	9	3	1	....	....	....
Charlevoix.....	Total.....	14	11	....	....	2	....	1	5	5	1	1	1	....	1
	Males.....	3	3	....	....	....	....	....	2	1	....	....	....	....	....
	Females...	11	8	....	....	2	....	1	3	4	1	1	1	....	1
Cheboygan.....	Total.....	9	7	....	1	1	....	....	3	3	1	....	1	....	1
	Males.....	3	2	....	....	1	....	....	3	....	....	....	....	....	....
	Females...	6	5	....	1	....	....	....	....	3	1	....	1	....	1

1903, showing place of marriage, number of children in family, and duration of marriage divorce.

dren in family.					Duration of marriage before divorce.																	
9.	10.	11.	12.	Unknown.	Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	Unknown.
7	1	3	1	19	91	190	215	216	193	905	771	457	283	177	111	68	34	6	....	....	....	16
....	....	....	....	5	37	58	57	63	59	274	222	134	67	51	26	23	12	4	....	....	....	4
7	1	3	1	14	54	132	158	153	134	631	549	323	216	126	85	45	22	2	....	....	....	12
....	....	....	....	....	....	....	....	1	....	1	1	1	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	1	....	1	1	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	3	....	....	1	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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....	....	....	....	....	1	1	1	5	4	12	15	7	3	1	3	1	....	....	....	....	....	....
....	....	....	....	....	1	....	....	3	....	4	6	1	....	....	2	....	....	....	....	....	....	....
....	....	....	....	....	....	1	1	2	4	8	9	6	3	1	1	1	....	....	....	....	....	....
....	....	....	....	....	1	3	1	1	1	7	3	1	2	2	....	1	....	....	....	....	....	....
....	....	....	....	....	....	1	....	....	....	1	1	....	....	....	....	1	....	....	....	....	....	....
....	....	....	....	....	1	2	1	1	1	6	2	1	2	2	....	....	....	....	....	....	....	....
....	....	....	....	....	2	3	1	3	3	12	4	3	3	3	....	....	....	....	....	....	....	....
....	....	....	....	....	1	2	....	2	2	7	1	2	1	1	....	....	....	....	....	....	....	....
....	....	....	....	....	1	1	1	1	1	5	3	1	2	2	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	1	....	1	2	1	....	1	....	....	....	....	....	....	....	....	....
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....	....	....	....	....	1	2	1	4	5	13	12	5	3	2	5	1	4	....	....	....	....	1
....	....	....	....	....	1	1	....	1	2	5	6	....	....	....	2	....	1	....	....	....	....	1
....	....	....	....	....	....	1	1	3	3	8	6	5	3	2	3	1	3	....	....	....	....	....
....	....	1	....	....	4	1	4	1	1	11	8	15	6	9	3	1	....	1	....	....	....	....
....	....	....	....	....	....	....	2	....	....	2	2	2	1	2	....	1	....	1	....	....	....	....
....	....	1	....	....	4	1	2	1	1	9	6	13	5	7	3	....	....	....	....	....	....	....
....	....	....	....	....	....	1	....	....	3	4	8	1	2	1	....	1	1	....	....	....	....	....
....	....	....	....	....	....	1	....	....	2	3	3	1	....	....	....	1	1	....	....	....	....	....
....	....	....	....	....	....	....	....	....	1	1	5	....	2	1	....	....	....	....	....	....	....	....
....	....	....	....	4	2	2	8	2	3	17	27	10	10	3	5	....	2	....	....	....	....	3
....	....	....	....	1	1	....	1	....	1	3	8	2	3	....	2	....	....	....	....	....	....	1
....	....	....	....	3	1	2	7	2	2	14	19	8	7	3	3	....	2	....	....	....	....	2
....	....	....	....	....	1	1	3	5	....	10	8	11	2	1	4	4	....	....	....	....	....	....
....	....	....	....	....	....	1	....	2	....	3	3	2	....	1	1	2	....	....	....	....	....	....
....	....	....	....	....	1	....	3	3	....	7	5	9	2	....	3	2	....	....	....	....	....	....
....	....	....	....	....	3	6	8	1	4	22	25	18	9	5	6	2	1	....	....	....	....	1
....	....	....	....	....	2	3	2	....	1	8	7	3	5	2	....	1	....	....	....	....	....	....
....	....	....	....	....	1	3	6	1	3	14	18	15	4	3	6	1	1	....	....	....	....	1
....	....	....	....	1	2	6	4	2	2	16	5	7	1	2	....	2	....	....	....	....	....	....
....	....	....	....	....	1	2	2	....	....	5	1	....	1	1	....	1	....	....	....	....	....	....
....	....	....	....	1	1	4	2	2	2	11	4	7	....	1	....	1	....	....	....	....	....	....
....	....	....	....	....	....	1	1	1	....	3	6	1	1	....	3	....	....	....	....	....	....	....
....	....	....	....	....	....	1	....	....	....	1	1	....	....	....	1	....	....	....	....	....	....	....
....	....	....	....	....	....	....	1	1	....	2	5	1	1	....	2	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	1	1	2	3	1	2	1	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	1	1	1	1	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	1	....	1	2	....	2	1	....	....	....	....	....	....	....	....

Table II.—Continued.—Divorces in Michigan, by counties and sex of complain-

State and counties.	Sex of complainants.	Complainants in divorces granted, 1902.	Place of marriage.						Number of chil-								
			Michigan.	Ohio, Indiana, Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.	7.	8.
Chippewa	Total	15	9	....	1	5	....	....	6	3	1	3	1	....	....	1	....
	Males	3	2	....	....	1	....	....	....	1	1	....	1	....	....	....	....
	Females	12	7	....	1	4	....	....	6	2	....	3	....	....	....	1	....
Clare	Total	8	8	....	....	....	....	....	1	1	4	....	....	....	....	....	....
	Males	3	3	....	....	....	....	....	1	1	1	....	....	....	....	....	....
	Females	5	5	....	....	....	....	....	....	....	3	....	....	....	....	....	....
Clinton	Total	21	17	1	2	1	....	....	9	4	4	2	2	....	....	....	....
	Males	5	5	....	....	....	....	....	3	....	....	1	1	....	....	....	....
	Females	16	12	1	2	1	....	....	6	4	4	1	1	....	....	....	....
Crawford	Total	2	1	....	....	....	....	1	....	....	1	1	....	....	....	....	....
	Males	1	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....
	Females	1	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....
Delta	Total	18	10	4	....	1	....	3	4	5	2	3	1	....	....	....	....
	Males	7	3	2	....	....	....	2	3	2	....	....	1	....	....	....	....
	Females	11	7	2	....	1	....	1	1	3	2	3	....	....	....	....	....
Dickinson	Total	9	7	2	....	....	....	....	3	2	....	2	2	....	....	....	....
	Males	2	2	....	....	....	....	....	2	....	....	....	....	....	....	....	....
	Females	7	5	2	....	....	....	....	1	2	....	2	2	....	....	....	....
Eaton	Total	56	49	2	5	....	....	....	33	10	4	4	1	2	....	1	....
	Males	21	18	1	2	....	....	....	15	1	3	1	....	1	....	....	....
	Females	35	31	1	3	....	....	....	18	9	1	3	1	1	....	1	....
Emmet	Total	16	13	1	1	1	....	....	10	2	2	....	....	2	....	....	....
	Males	4	4	....	....	....	....	....	1	....	1	....	....	2	....	....	....
	Females	12	9	1	1	1	....	....	9	2	1	....	....	....	....	....	....
Genesee	Total	75	68	2	2	3	....	....	30	19	11	9	1	2	1	2	....
	Males	25	22	....	1	2	....	....	9	4	8	2	1	....	....	1	....
	Females	50	46	2	1	1	....	....	21	15	3	7	....	2	1	1	....
Gladwin	Total	3	2	....	....	1	....	....	1	1	1	....	....	....	....	....	....
	Males	1	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....
	Females	2	2			....	....	....	....	1	1	....	....	....	....	....	....
Gogebic	Total	14	5			2	3	1	7	3	2	....	1	....	....	....	....
	Males	5	1			2	1	....	3	1	....	....	....	....	....	....	....
	Females	9	4			....	2	1	4	2	2	....	1		....	....	....
Grand Traverse	Total	37	34			....	....	....	16	7	9		3		....	....	....
	Males	7	6			....	....	....	4	1	2				....	....	....
	Females	30	28			....	....	....	12	6	7		3		....	....	....
Gratiot	Total	74	66			1	....	....	41	19					....	....	....
	Males	19	16			....	....	....	11	3						....	....
	Females	55	50			1	....	....	30	16							....
Hillsdale	Total	41	36			....	....	....	16	14	5		2				....
	Males	16	15			....	....	....	6	7	2						....
	Females	25	21	3	1	....	....	....	10	7		3					....
Houghton	Total	21	14	....	1	2	1	3	9	3			2				....
	Males	7	3	....	1	....	1	2	4	1	....						....
	Females	14	11	....	....	2	....	1	5	2							....
Huron	Total	11	8	....	....	3	....	....	2	5							1
	Males	4	3	....	....	1	....	....	1	2							....
	Females	7	5	....	....	2	....	....	1	3							1
Ingham	Total	51	46	....	1	2	....	2	22	10	8	6					....
	Males	13	9	....	....	2	....	2	7	1		2					....
	Females	38	37	....	1	....	....	....	15	9	6	4	3				....

r of children in family and duration of marriage before divorce.

		Duration of marriage before divorce.																	
12.	Unknown.	Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	Unknown.
....	....	....	2	....	1	1	4	4	2	2	3	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....	....	....	....	....
....	....	....	2	....	1	1	4	4	1	1	2	....	....	....	....	....	....	....	....
....	2	....	1	1	....	....	2	3	1	1	....	1	....	....	....	....	....	....	....
....	....	....	1	....	....	....	1	1	1	....	....	....	....	....	....	....	....	....	....
....	2	....	....	1	....	....	1	2	....	1	....	1	....	....	....	....	....	....	....
....	....	....	1	2	2	2	7	4	4	1	2	1	....	2	....	....	....	....	....
....	....	....	....	....	1	....	1	....	3	....	....	1	....	....	....	....	....	....	....
....	....	....	1	2	1	2	6	4	1	1	2	....	....	2	....	....	....	....	....
....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
....	3	2	1	....	2	1	6	4	3	....	2	3	....	....	....	....	....	....	....
....	1	....	....	....	2	....	2	2	....	....	1	2	....	....	....	....	....	....	....
....	2	2	1	....	....	1	4	2	3	....	1	1	....	....	....	....	....	....	....
....	....	1	1	1	1	....	4	3	1	1	....	....	....	....	....	....	....	....	....
....	....	....	1	1	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....
....	....	1	....	....	1	....	2	3	1	1	....	....	....	....	....	....	....	....	....
....	1	....	9	7	5	6	27	13	4	8	....	3	1	....	....	....	....	....	....
....	....	....	2	3	4	1	10	3	3	3	....	2	....	....	....	....	....	....	....
....	1	....	7	4	1	5	17	10	1	5	....	1	1	....	....	....	....	....	....
....	....	....	1	2	2	4	9	2	....	2	2	....	....	1	....	....	....	....	....
....	....	....	....	1	....	....	1	....	....	1	2	....	....	....	....	....	....	....	....
....	....	....	1	1	2	4	8	2	....	1	....	....	....	1	....	....	....	....	....
....	....	2	8	6	4	9	29	18	5	9	8	1	4	1	....	....	....	....	....
....	....	2	2	3	....	3	10	5	2	....	5	1	1	1	....	....	....	....	....
....	....	....	6	3	4	6	19	13	3	9	3	....	3	....	....	....	....	....	....
....	....	....	....	....	....	....	....	2	1	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....
....	1	1	1	1	1	1	5	4	1	2	....	1	....	....	....	....	....	....	1
....	1	1	1	1	....	....	3	1	....	1	....	....	....	....	....	....	....	....	....
....	....	....	....	....	1	1	2	3	1	1	....	1	....	....	....	....	....	....	1
....	....	....	....	2	7	4	13	10	4	4	2	4	....	....	....	....	....	....	....
....	....	....	....	1	2	1	4	1	1	1	....	....	....	....	....	....	....	....	....
....	....	....	....	1	5	3	9	9	3	3	2	4	....	....	....	....	....	....	....
....	....	2	2	7	9	6	26	22	12	6	3	2	1	1	....	....	....	....	1
....	....	....	....	2	5	4	11	4	1	1	1	....	1	....	....	....	....	....	....
....	....	2	2	5	4	2	15	18	11	5	2	2	....	1	....	....	....	....	1
....	....	....	2	3	1	4	10	14	6	3	2	3	2	1	....	....	....	....	....
....	....	....	1	....	....	3	4	5	3	1	1	....	2	....	....	....	....	....	....
....	....	....	1	3	1	1	6	9	3	2	1	3	....	1	....	....	....	....	....
....	2	....	1	1	....	2	4	6	6	2	2	....	....	....	....	....	....	....	1
....	1	....	1	....	....	....	1	4	1	1	....	....	....	....	....	....	....	....	....
....	1	....	....	1	....	2	3	2	5	1	2	....	....	....	....	....	....	....	1
....	....	....	....	....	....	2	2	3	2	2	1	1	....	....	....	....	....	....	....
....	....	....	....	....	....	1	1	2	....	1	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	1	1	1	2	1	1	1	....	....	....	....	....	....	....
....	....	1	2	2	3	6	14	16	11	3	5	1	....	....	1	....	....	....	....
....	....	1	....	....	1	1	3	4	3	1	1	....	....	....	1	....	....	....	....
....	....	....	2	2	2	5	11	12	8	2	4	1	....	....	....	....	....	....	....

Table II.—Continued.—Divorces in Michigan, by counties and sex of complain-

State and counties.	Sex of complainants	Complainants in divorces granted, 1902.	Place of marriage.						Number of chil-								
			Michigan.	Ohio, Indiana, Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.	7.	8.
Ionia	Total	47	42	1	3	1	....	....	20	11	10	2	....	1	2	....	....
	Males	11	11	....	....	....	....	....	6	3	1	1	....	....	....	....	....
	Females	36	31	1	3	1	....	....	14	8	9	1	....	1	2	....	....
Iosco	Total	3	3	....	....	....	....	....	2	....	....	....	1	....	....	....	....
	Males	2	2	....	....	....	....	....	1	....	....	....	1	....	....	....	....
	Females	1	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Iron	Total	6	4	1	....	....	1	....	1	1	2	1	....	....	1	....	....
	Males	1	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....
	Females	5	3	1	....	....	1	....	1	1	1	1	....	....	1	....	....
Isabella	Total	27	23	1	2	1	....	....	8	8	4	5	....	1	....	....	1
	Males	10	9	....	1	....	....	....	6	1	2	....	....	....	....	....	1
	Females	17	14	1	1	1	....	....	2	7	2	5	....	1	....	....	....
Jackson	Total	81	70	3	7	1	....	....	37	28	11	1	....	1	2	1	....
	Males	21	19	....	2	....	....	....	13	3	4	1	....	....	....	....	....
	Females	60	51	3	5	1	....	....	24	25	7	....	....	1	2	1	....
Kalamazoo	Total	88	80	4	4	....	....	....	39	26	11	7	1	3	....	....	1
	Males	21	21	....	....	....	....	....	12	4	2	3	....	....	....	....	....
	Females	67	59	4	4	....	....	....	27	22	9	4	1	3	....	....	1
Kalkaska	Total	14	9	4	1	....	....	....	5	3	3	1	2	....	....	....	....
	Males	4	1	2	1	....	....	....	1	....	2	1	....	....	....	....	....
	Females	10	8	2	....	....	....	....	4	3	1	....	2	....	....	....	....
Kent	Total	239	209	4	18	4	3	1	134	46	27	11	12	4	2	1	1
	Males	62	53	....	5	2	2	....	45	8	6	2	1	....	....	....	....
	Females	177	156	4	13	2	1	1	89	38	21	9	11	4	2	1	1
Keweenaw	Total	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Males	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lake	Total	8	6	....	....	1	....	1	1	4	2	....	....	....	....	....	....
	Males	3	2	....	....	1	....	....	1	2	....	....	....	....	....	....	....
	Females	5	4	....	....	....	....	1	....	2	2	....	....	....	....	....	....
Lapeer	Total	21	19	....	....	2	....	....	8	7	2	2	1	....	1	....	....
	Males	5	4	....	....	1	....	....	3	1	....	1	....	....	....	....	....
	Females	16	15	....	....	1	....	....	5	6	2	1	1	....	1	....	....
Leelanau	Total	5	5	....	....	....	....	....	2	1	....	....	2	....	....	....	....
	Males	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females	5	5					....	2	1	....	....	2	....	....	....	....
Lenawee	Total	58	55					....	21	16	9	4	4	2	....	....	....
	Males	10	9					....	2	2	4	1	1	....	....	....	....
	Females	48	46					....	19	14	5	3	3	2	....	....	....
Livingston	Total	23	21					....	13	8	2	....	....	....	....	....	....
	Males	8	7					....	5	3	....	....	....	....	....	....	....
	Females	15	14				....	....	8	5	2	....	....	....	....	....	....
Luce	Total	1	1				....	....	....	1	....	....	....	....	....	....	....
	Males	....	....				....	....	....	....	....	....	....	....	....	....	....
	Females	1	1				....	....	....	1	....	....	....	....	....	....	....
Mackinac	Total	4	3			....	....	....	4	....	....	....	....	....	....	....	....
	Males	2	1	....	....	....	....	....	2	....	....	....	....	....	....	....	....
	Females	2	2	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Macomb	Total	34	24	....	5	4	....	1	22	3	2	3	2	....	1	1	....
	Males	14	10	....	2	2	....	....	11	1	1	1	....	....	....	....	....
	Females	20	14	....	3	2	....	1	11	2	1	2	2	....	1	1	....

ant, number of children in family and duration of marriage before divorce.

dren in family.					Duration of marriage before divorce.																	
9.	10.	11.	12.	Unknown.	Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	Unknown.
....	....	....	....	1	....	2	5	1	3	11	14	7	7	6	1	1	....	....	....	....	....	....
....	....	....	....	....	....	1	....	1	....	2	3	3	1	1	1	....	....	....	....	....	....	....
....	....	....	....	1	....	1	5	....	3	9	11	4	6	5	....	1	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	1	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	2	....	2	2	....	1	1	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	2	....	2	1	....	1	1	....	....	....	....	....	....	....	....
....	....	....	....	....	1	....	1	1	2	5	7	4	3	2	3	1	2	....	....	....	....	....
....	....	....	....	....	1	....	1	....	1	3	3	1	....	....	....	1	2	....	....	....	....	....
....	....	....	....	....	....	....	....	1	1	2	4	3	3	2	3	....	....	....	....	....	....	....
....	....	....	....	....	5	3	8	6	7	29	20	12	9	7	1	1	2	....	....	....	....	....
....	....	....	....	....	2	2	2	3	1	10	2	5	....	3	....	....	1	....	....	....	....	....
....	....	....	....	....	3	1	6	3	6	19	18	7	9	4	1	1	1	....	....	....	....	....
....	....	....	....	....	4	9	8	10	4	35	20	19	8	3	2	....	1	....	....	....	....	....
....	....	....	....	....	3	2	1	1	1	8	7	2	2	1	....	....	1	....	....	....	....	....
....	....	....	....	....	1	7	7	9	3	27	13	17	6	2	2	....	....	....	....	....	....	....
....	....	....	....	....	....	2	....	1	....	3	5	1	3	1	....	1	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	2	....	....	1	....	1	....	....	....	....	....	....
....	....	....	....	....	....	2	....	1	....	3	3	1	3	....	....	....	....	....	....	....	....	....
1	....	....	....	....	8	13	14	25	16	76	64	45	14	13	17	6	2	....	....	....	....	2
....	....	....	....	....	2	5	5	4	3	19	20	13	5	2	2	....	1	....	....	....	....	....
1	....	....	....	....	6	8	9	21	13	57	44	32	9	11	15	6	1	....	....	....	....	2
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	1	....	....	....	....	....	....	3	2	....	2	1	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	1	1	....	1	....	....	....	....	....	....	....	....
....	....	....	....	1	....	....	....	....	....	....	2	1	....	1	1	....	....	....	....	....	....	....
....	....	....	....	....	2	1	2	1	2	8	7	1	1	2	1	1	....	....	....	....	....	....
....	....	....	....	....	1	....	....	....	....	1	3	1	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	1	1	2	1	2	7	4	....	1	2	1	1	....	....	....	....	....	....
....	....	....	....	....	....	1	1	....	....	2	1	....	2	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	1	1	....	....	2	1	....	2	....	....	....	....	....	....	....	....	....
1	....	1	....	....	1	6	2	6	1	16	9	15	10	2	6	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	1	....	1	2	5	2	....	....	....	....	....	....	....	....	....
1	....	1	....	....	1	6	2	5	1	15	7	10	8	2	6	....	....	....	....	....	....	....
....	....	....	....	....	....	2	1	4	1	8	7	3	3	....	2	....	....	....	....	....	....	....
....	....	....	....	....	....	1	1	1	....	3	2	2	....	....	1	....	....	....	....	....	....	....
....	....	....	....	....	....	1	....	3	1	5	5	1	3	....	1	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	1	1	2	....	1	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....
....	....	....	....	....	1	2	5	1	2	11	9	5	5	2	1	....	....	1	....	....	....	....
....	....	....	....	....	....	1	3	1	....	5	5	2	2	....	....	....	....	....	....	....	....	....
....	....	....	....	....	1	1	2	....	2	6	4	3	3	2	1	....	....	1	....	....	....	....

Table 11.—Continued.—Divorces in Michigan, by counties and sex of

State and counties.	Sex of complainants.	Complainants in divorces granted, 1902.	Place of marriage.											
			Michigan.	Ohio, Indiana, Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.
Manistee	Total	15	14	1					9	4		1	1	
	Males	4	4						2	1		1		
	Females	11	10	1					7	3			1	
Marquette	Total	12	8	1			2	1	3	5		2	1	1
	Males	5	3				1	1	3	2				
	Females	7	5	1			1			3		2	1	1
Mason	Total	4	4						3	1				
	Males	2	2						2					
	Females	2	2						1	1				
Mecosta	Total	19	19						9	4	2	1	1	
	Males	9	9						6	2			1	
	Females	10	10						3	2	2	1		
Menominee	Total	8	5	1		1	1		1	1	3	1		
	Males	3	2				1		1	1				
	Females	5	3	1		1					3	1		
Midland	Total	10	9				1		4		3	1	1	
	Males	5	5						3		2			
	Females	5	4				1		1		1	1	1	
Milwaukee	Total	14	13		1				9		2	1		2
	Males	6	6						4			1		1
	Females	8	7		1				5		2			1
Monroe	Total	25	20	3	2				7	10	1	4	1	1
	Males	9	7	1	1				1	4		1	1	1
	Females	16	13	2	1				6	6	1	3		
Montcalm	Total	54	50	2	1	1			24	14	7	6	2	
	Males	12	11	1					6	3	1		1	
	Females	42	39	1	1	1			18	11	6	6	1	
Montmorency	Total	3	2		1				1	1				
	Males	2	1		1				1	1				
	Females	1	1											
Muskegon	Total	40	31	3	3	2	1		15	10	8	4	1	2
	Males	13	8	1	2	1	1		7	4	2			
	Females	27	23	2	1	1			8	6	6	4	1	2
Newaygo	Total	19	17			1		1	17	2				
	Males	6	5					1	6					
	Females	13	12			1			11	2				
Oakland	Total	32	30				2		14	8	4	2		2
	Males	12	11				1		5	3	1	2		
	Females	20	19				1		9	5	3			2
Oceana	Total	18	16	1	1				8	6	1	1	1	
	Males	7	6		1				4	1		1		
	Females	11	10	1					4	5	1		1	
Ogemaw	Total	7	7						6			1		
	Males	3	3						3					
	Females	4	4						3			1		
Ontonagon	Total	3	3						2	1				
	Males	1	1							1				
	Females	2	2						2					
Osceola	Total	13	12					1	9	1	1			
	Males	6	5					1	4	1	1			
	Females	7	7						5					

ant, number of children in family and duration of marriage before divorce.

dren in family.					Duration of marriage before divorce.																	
9.	10.	11.	12.	Unknown.	Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	Unknown.
						1	2		2	5	5	4	1									
							1		1	2		1	1									
						1	1		1	3	5	3										
							2	1		3	5	1	3									
							1			1	2	1	1									
							1	1		2	3		2									
							1	1		2				2								
														2								
							1	1		2												
						3		1	3	7	5		2	3	1	1						
						1		1	2	4	3			2								
						2			1	3	2		2	1	1	1						
											1	5			2							
											1	1			1							
												4			1							
					1				1	2	2	2	1	1	2							
					1				1	2	1	1			1							
											1	1	1	1	1							
					2	1	1			4	4	3	1	1			1					
					1					1	2	1	1	1								
					1	1	1			3	2	2					1					
					1	2	1		2	6	5	6	3	3		1	1					
						1			1	2	3		2	1		1						
					1	1	1		1	4	2	6	1	2			1					
						7	4	6	2	19	11	15		2	3	3	1					
						1	1	1		3	3	2		1	2	1						
						6	3	5	2	16	8	13		1	1	2	1					
						1				1			1	1								
						1				1				1								
													1									
					1	3	1	4	1	10	10	3	7	6	1	3						
					1	3		1		5	4	1	1	1		1						
							1	3	1	5	6	2	6	5	1	2						
					4	2		2	2	10	6	3										
					1	1			1	3	3											
					3	1		2	1	7	3	3										
					2	2	1	1	3	9	9	8	3	2			1					
						1		1	1	3	3	4	2									
					2	1	1		2	6	6	4	1	2			1					
						2	3		2	7	3	4	2	1		1						
						1	1		1	3	1	1	1			1						
						1	2		1	4	2	3	1	1								
						2	2	1		5	2											
						2		1		3												
							2			2	2											
					1					1		1	1									
					1					1												
												1	1									
						1	2	2	1	6	2	1	1	1			1					1
							1	1	1	3	1						1					1
						1	1	1		3	1	1	1	1								

Table II.—Concluded.—Divorces in Michigan, by counties and sex of complain-

State and counties.	Sex of complainants.	Complainants in divorces granted, 1902.	Place of marriage.						Number of chil-								
			Michigan.	Ohio, Indiana, Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.	7.	8.
Oscoda	Total																
	Males																
	Females																
Otsego	Total	6	6						5	1							
	Males	3	3						3								
	Females	3	3						2	1							
Ottawa	Total	21	16	2	2	1			10	1	4	1	2			2	
	Males	7	3	2	1	1			4			1	2				
	Females	14	13		1				6	1	4					2	
Presque Isle	Total	10	8		1	1			5	1	1				1		1
	Males	3	3						2								1
	Females	7	5		1	1			3	1	1				1		
Roscommon	Total	1	1						1								
	Males	1	1						1								
	Females																
Saginaw	Total	102	92	2	3	5			53	22	14	8		2	2		
	Males	29	24	2	1	2			16	6	5	1		1			
	Females	73	68		2	3			37	16	9	7		1	2		
St. Clair	Total	82	53		4	19	1	5	40	21	10	2	2	2	1	1	
	Males	19	12			5	1	1	13	3	3						
	Females	63	41		4	14		4	27	18	7	2	2	2	1	1	
St. Joseph	Total	26	20	5	1				12	7	5	1			1		
	Males	9	7	2					7	2							
	Females	17	13	3	1				5	5	5	1			1		
Sanilac	Total	18	17			1			5	3	6		1		1	1	
	Males	6	5			1			4	1					1		
	Females	12	12						1	2	6		1			1	
Schoolcraft	Total	4	2		1	1			3	1							
	Males																
	Females	4	2		1	1			3	1							
Shiawassee	Total	68	65		1	2			36	17	4	4	2	4			
	Males	26	24			2			15	6	2	2		1			
	Females	42	41		1				21	11	2	2	2	3			
Tuscola	Total	32	28			4			16	8	4	3	1				
	Males	17	14			3			9	3	2	3					
	Females	15	14			1			7	5	2		1				
Van Buren	Total	48	36	2	10				23	9	6	7	1	1	1		
	Males	11	7	1	3				7		1	3					
	Females	37	29	1	7				16	9	5	4	1	1	1		
Washtenaw	Total	37	33	1	2			1	25	4	2	2	2	1			
	Males	15	13		1			1	10	1	1	1	1				
	Females	22	20	1	1				15	3	1	1	1	1			
Wayne	Total	444	259	18	36	122	8	1	243	108	42	33	7	8	1	1	1
	Males	110	65	3	13	27	2		68	22	12	5	3				
	Females	334	194	15	23	95	6	1	175	86	30	28	4	8	1	1	1
Wexford	Total	27	24	1	1		1		16	4	4	2	1				
	Males	3	3						3								
	Females	24	21	1	1		1		13	4	4	2	1				

ant, number of children in family and duration of marriage before divorce.

dren in family.					Duration of marriage before divorce.																	
9.	10.	11.	12.	Unknown.	Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	Unknown.
						2	1			3	1		2									
						2	1			3												
											1		2									
			1			4	1	1	1	7	4	4	2	1	1	2						
						1			1	2	1	3			1							
			1			3	1	1		5	3	1	2	1		2						
1					1	1	1	1	1	5	1	1	2	1								
					1		1			2			1									
1						1		1	1	3	1	1	1	1								
								1		1												
								1		1												
1					7	8	8	7	6	36	31	15	9	2	4	2	3					
					3		3	2	4	12	6	8	1	1			1					
1					4	8	5	5	2	24	25	7	8	1	4	2	2					
		1	*	2	6	4	9	5	4	28	18	19	5	4		4	1					3
					3		2	3	1	9	3	5	1			1						
		1		2	3	4	7	2	3	19	15	14	4	4		3	1					3
					1	1	2	1	2	7	9	3	4	3								
						1	1		1	3	3	1	1	1								
					1		1	1	1	4	6	2	3	2								
	1					2			2	4	8	4			1	1						
											4	2										
	1					2			2	4	4	2			1	1						
									1	1	1	1						1				
									1	1	1	1						1				
1					2	5	3	7	5	22	14	14	10	4	1	2	1					
					1	2		5		8	5	7	3	1	1	1						
1					1	3	3	2	5	14	9	7	7	3		1	1					
					1	1	3	5	1	11	9	2	5	3		1		1				
					1		1	2	1	5	4	1	4	2				1				
						1	2	3		6	5	1	1	1		1						
					1	3	2	4	5	15	12	7	10		2	2						
						1			2	3	3	2	2		1							
					1	2	2	4	3	12	9	5	8		1	2						
				1		3	4		1	8	8	7	6	4		2	1					
				1			3			3	2	4	2	1		1	1					1
						3	1		1	5	6	3	4	3		1						1
					12	26	39	41	27	145	149	61	41	27	8	10	2	1				
					3	6	8	9	9	35	38	18	7	7	1	2	1	1				
					9	20	31	32	18	110	111	43	34	20	7	8	1					
						3	6	1	3	13	6	4	3									1
									1	1	1		1									
						3	6	1	2	12	5	4	2									1

Table III.—Causes of divorce in Michigan, by sex of complainant, during the year 1902, before

Causes alleged in petitions for divorces granted in 1902.	Sex of complainant.	Complainants in divorces granted 1902.	Place of marriage.						Number of children.								
			Michigan.	Ohio, Indiana, Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.	7.	8.
ALL CAUSES	Total	2,828	2,280	107	173	208	29	31	1,374	669	354	189	93	51	36	24	7
	Males	817	644	30	56	60	13	14	474	149	100	45	24	8	4	5	3
	Females	2,011	1,636	77	117	148	16	17	900	520	254	144	69	43	32	19	4
Adultery	Total	62	49	2	2	5	1	3	38	10	5	3	4		1		
	Males	52	39	2	2	5	1	3	33	9	4	2	4				
	Females	10	10						5	1	1	1			1		
Adultery and cruelty	Total	13	9	2	1	1			4	4	1	3	1				
	Males	11	9	1	1				3	3	1	3	1				
	Females	2		1		1			1	1							
Adultery, cruelty and desertion	Total	3	3							1	2						
	Males	3	3							1	2						
	Females																
Adultery, curelty and non-support	Total	1	1										1				
	Males																
	Females	1	1										1				
Adultery and desertion	Total	6	3			1	1	1	4	1	1						
	Males	4	3				1		2	1	1						
	Females	2				1		1	2								
Adultery and drunkenness	Total	1	1						1								
	Males	1	1						1								
	Females																
Adultery and non-support	Total	1	1														
	Males																
	Females	1	1														
Annulment, cruelty and duress	Total	1	1							1							
	Males	1	1							1							
	Females																
Annulment of marriage	Total	2	2						2								
	Males	2	2						2								
	Females																
Bigamy	Total	4	3		1				4								
	Males	1	1						1								
	Females	3	2		1				3								
Convicted of crime	Total	1	1							1							
	Males																
	Females	1	1							1							
Convicted of larceny	Total	1	1							1							
	Males																
	Females	1	1							1							
Cruelty	Total	966	829	29	49	44	8	7	480	199	119	69	39	20	15	11	2
	Males	327	273	12	22	14	4	2	195	59	37	20	10	2	1	2	1
	Females	639	556	17	27	30	4	5	285	140	82	49	29	18	14	9	1
Cruelty and desertion	Total	69	54		6	6	2	1	37	20	5	3	1	1			1
	Males	39	31		4	3	1		22	9	5	2					1
	Females	30	23		2	3	1	1	15	11		1	1	1			
Cruelty, desertion and imprisonment	Total	1	1							1							
	Males																
	Females	1	1							1							

showing place of marriage, number of children in family and duration of marriage divorce.

dren in family.				Duration of marriage before divorce.																		
9.	10.	11.	12.	Unknown.	Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	Unknown.
7	1	3	1	19	91	190	215	216	193	905	771	457	283	177	111	68	34	6	....	....	....	16
....	....	....	....	5	37	58	57	63	59	274	222	134	67	51	26	23	12	4	....	....	....	4
7	1	3	1	14	54	132	158	153	134	631	549	323	216	126	85	45	22	2	....	....	....	12
....	....	....	....	1	5	7	2	3	3	20	19	10	6	4	1	1	....	....	....	....	....	1
....	....	....	....	....	5	6	2	3	2	18	15	8	4	4	1	1	....	....	....	....	....	1
....	....	....	....	1	....	1	....	....	1	2	4	2	2	....	....	....	....	....	....	....	....	....
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....	....	....	....	....	1	1	1	....	....	3	1	....	....	....	....	....	....	....	....	....	....	....
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5	1	1	1	4	42	86	78	76	65	347	234	157	104	46	43	21	10	....	....	....	....	4
....	....	....	....	....	23	40	23	32	22	140	72	56	27	10	9	10	3	....	....	....	....	....
5	1	1	1	4	19	46	55	44	43	207	162	101	77	36	34	11	7	....	....	....	....	4
....	....	....	....	1	3	....	5	5	4	17	18	18	9	4	2	1	....	....	....	....	....	....
....	....	....	....	....	1	....	2	2	3	8	11	11	3	3	2	1	....	....	....	....	....	....
....	....	....	....	1	2	....	3	3	1	9	7	7	6	1	....	....	....	....	....	....	....	....
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Table III.—Continued.—Causes of divorce in Michigan, during the year 1902.

Causes alleged in petitions for divorces granted in 1902.	Sex of complainants.	Complainants in divorces granted, 1902.	Place of marriage.						Number of chil-								
			Michigan.	Ohio, Indiana, Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.	7.	8.
Cruelty, desertion and non-support	Total	19	12	1	3	1	1	1	8	6	3		1				
	Males	1	1								1						
	Females	18	11	1	3	1	1	1	8	6	2		1				
Cruelty and drunkenness	Total	47	37	2	5	2	1		19	10	6	5	5	1	1		
	Males	3	2			1				2			1				
	Females	44	35	2	5	1	1		19	8	6	5	4	1	1		
Cruelty, drunkenness and non-support	Total	31	22	1	4	3	1		7	10	6	5			1	1	
	Males																
	Females	31	22	1	4	3	1		7	10	6	5			1	1	
Cruelty and fraud	Total	1	1						1								
	Males																
	Females	1	1						1								
Cruelty, fraud and imposition	Total	1	1							1							
	Males	1	1							1							
	Females																
Cruelty and imprisonment	Total	1	1						1								
	Males																
	Females	1	1						1								
Cruelty and infidelity	Total	1	1						1								
	Males	1	1						1								
	Females																
Cruelty and neglect	Total	6	5	1					3	1	1			1			
	Males	3	2	1					2					1			
	Females	3	3						1	1	1						
Cruelty, neglect and non-support	Total	1	1							1							
	Males																
	Females	1	1							1							
Cruelty and non-support	Total	315	259	18	14	22	2		122	88	52	26	8	7	7	3	
	Males	3	3						1	1		1					
	Females	312	256	18	14	22	2		121	87	52	25	8	7	7	3	
Desertion	Total	621	470	27	43	61	8	12	307	134	89	44	17	12	5	5	2
	Males	341	254	13	26	35	5	8	194	58	49	17	8	5	3	3	1
	Females	280	216	14	17	26	3	4	113	76	40	27	9	7	2	2	1
Desertion and abandonment	Total	1	1							1							
	Males																
	Females	1	1							1							
Desertion and drunkenness	Total	2	1		1				2								
	Males																
	Females	2	1		1				2								
Desertion, drunkenness and non-support	Total	3	2	1					1	1	1						
	Males																
	Females	3	2	1					1	1	1						
Desertion, imprisonment and non-support	Total	1	1							1							
	Males																
	Females	1	1							1							
Desertion and non-support	Total	138	105	7	11	15			66	36	14	11	5	5	1		
	Males	1		1						1							
	Females	137	105	6	11	15			66	35	14	11	5	5	1		
Drunkenness	Total	42	36	1	3	1	1		20	13	2	4			2		
	Males	8	6		1		1		5	2							
	Females	34	30	1	2	1			15	11	2	4			2		

showing number of children in family, and duration of marriage before divorce.

dren in family.				Duration of marriage before divorce.																		
9.	10.	11.	12.	Unknown.	Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	Unknown.
				1				2	1	3	6	3	3	1	1		1	1				
											1											
				1				2	1	3	5	3	3	1	1		1	1				
						4	2	2	1	9	15	7	5	4	5	1	1					
											1			2								
						4	2	2	1	9	14	7	5	2	5	1	1					
				1	1	1	2	1	3	8	9	4	3	5	1	1						
				1	1	1	2	1	3	8	9	4	3	5	1	1						
								1		1												
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						1				1	2	1	1			1						
											1	1	1									
						1				1	1					1						
								1		1												
								1		1												
1				1	9	24	24	29	27	113	88	51	30	18	10	4						1
								1		1	2											
1				1	9	24	24	28	27	112	86	51	30	18	10	4						1
1		1		4	8	14	30	40	45	137	180	106	67	65	27	21	12	4				2
				3	5	6	21	24	29	85	106	52	30	32	13	10	8	4				1
1		1		1	3	8	9	16	16	52	74	54	37	33	14	11	4					1
											1											
											1											
							1		1	2												
							1		1	2												
								1		1		1										1
								1		1		1										1
											1											
											1											
						8	6	7	6	27	46	22	14	16	6	3	4					
											1											
						8	6	7	6	27	45	22	14	16	6	3	4					
				1		2	7	1	3	13	11	6	5		6							1
				1		1	2		1	4	3				1							
						1	5	1	2	9	8	6	5		5							1

Table III.—Concluded.—Causes of divorce in Michigan, during the year 1902,

Causes alleged in petitions for divorces granted in 1902.	Sex of complainants.	Complainants in divorces granted, 1902.	Place of marriage.						Number of children.								
			Michigan.	Ohio, Indiana Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2	3.	4.	5.	6.	7.	8.
Drunkenness and non-support	Total	25	21	2	2				13	8	1	2	1				
	Males																
	Females	25	21	2	2				13	8	1	2	1				
Fraud	Total	6	6						6								
	Males	4	4						4								
	Females	2	2						2								
Fraud and illegal age	Total	1		1					1								
	Males																
	Females	1		1					1								
Illegal age	Total	1				1			1								
	Males	1				1			1								
	Females																
Impotence	Total	1	1						1								
	Males																
	Females	1	1						1								
Imprisonment	Total	11	11						7	1						2	
	Males																
	Females	11	11						7	1						2	
Imprisonment and non-support	Total	2	2						2								
	Males																
	Females	2	2						2								
Insanity	Total	2	1			1			2								
	Males	1	1						1								
	Females	1				1			1								
Misconduct	Total	2	2						1	1							
	Males																
	Females	2	2						1	1							
Neglect and non-support	Total	2	2							1			1				
	Males																
	Females	2	2							1			1				
Non-support	Total	409	318	12	28	44	3	4	211	116	46	14	9	4	3	2	2
	Males	6	5			1			5	1							
	Females	403	313	12	28	43	3	4	206	115	46	14	9	4	3	2	2
Refusal to cohabit	Total	1	1						1								
	Males	1	1						1								
	Females																
Unknown	Total	2						2									
	Males	1						1									
	Females	1						1									

showing number of children in family, and duration of marriage before divorce.

dren in family.				Duration of marriage before divorce.																	
9.	10.	11.	12.	Unknown.	Under 1 year.	1.	2.	3.	4.	Under 5 years.	5 to 9.	10 to 14.	15 to 19	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	Unknown.
						3	4		1	8	8	4	3			2						
						3	4		1	8	8	4	3			2						
					3		3			6												
					1		3			4												
					2					2												
					1					1												
					1					1												
					1					1												
					1																	
						1				1												
						1				1												
		1				2		1	1	4	3		2			2						
		1				2		1	1	4	3		2			2						
							1			1	1											
							1			1	1											
								2		2												
								1		1												
								1		1												
							1			1				1								
							1			1				1								
													1			1						
													1			1						
					2	16	33	46	42	30	167	117	60	26	13	8	9	5	1			3
							3	1			4	1					1					
					2	16	30	45	42	30	163	116	60	26	13	8	8	5	1			3
								1			1											
								1			1											
					2																	2
					1																	1
					1																	1

TABLES

RELATING TO

BIRTHS

IN

MICHIGAN

AS ENUMERATED BY

SUPERVISORS AND ASSESSORS

FOR THE

YEAR 1902.

PRIMARY TABLES RELATING TO BIRTHS IN MICHIGAN ACCORDING TO THE ENUMERATION BY SUPERVISORS AND ASSESSORS FOR THE YEAR 1902.

TABLE I.—Births in Michigan, by months, counties and sex, as enumerated by supervisors and assessors for the year 1902. (Stillbirths included.)

TABLE II.—Births in Michigan by nativity of parents, counties and sex, as enumerated by supervisors and assessors for the year 1902. (Stillbirths included.)

TABLE III.—Stillbirths, twins and illegitimate births in Michigan, by counties, as enumerated by supervisors and assessors for the year 1902. (Stillbirths included.)

TABLE IV.—Stillbirths, twins and illegitimate births in Michigan, by months and sex, as enumerated by supervisors and assessors for the year 1902: also number of stillbirths registered as deaths and returned by registrars for same year.

TARLE V.—Stillbirths, twins and illegitimate births in Michigau, by nativity of parents, as enumerated by supervisors and assessors for the year 1902. (Stillbirths included.)

NOTE.—*Secondary tables*, containing birth rates and comparisons with previous years, may be found on preceding pages of this Report, together with the descriptive text. It may be noted that no comparisons with other States or countries are given for the reason that the returns of births, obtained by means of enumeration after the close of the year by supervisors and assessors, are grossly inaccurate. Perhaps one-third of all the births that actually occur in the State escape enumeration. The returns are valuable for certain internal comparisons, as pointed out in the text on this subject, but they should be used with great caution for all purposes, and especially for the comparative study of birth rates. The tables relating to births are placed last because of their unreliable character and also because the tardiness of the returns under the old law (last amended in 1869) causes them to be received at the Department of State long after the deaths, marriages and divorces have been compiled

Table I.—Births in Michigan, by months, counties and sex, as enumerated by supervisors and assessors for the year 1902. (Stillbirths included.)

State and counties.	Sex.	Year. 1902.	Months, 1902.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
STATE.....	Total....	45,546	3,220	3,200	3,881	3,667	3,888	3,786	4,065	4,154	3,963	3,893	3,741	4,049	39
	Males....	23,484	1,691	1,636	1,978	1,897	2,014	1,920	2,132	2,153	2,041	1,993	1,933	2,077	19
	Females.	22,011	1,527	1,560	1,898	1,764	1,869	1,865	1,932	1,998	1,916	1,899	1,802	1,966	15
	Unk.....	51	2	4	5	6	5	1	1	3	6	1	6	6	5
Alcona.....	Total....	106	8	6	14	7	15	7	11	6	8	9	7	7	1
	Males....	56	4	2	4	5	10	2	4	4	5	8	3	4	1
	Females.	50	4	4	10	2	5	5	7	2	3	1	4	3	..
Alger.....	Total....	78	8	3	4	7	7	6	7	11	8	8	4	5	..
	Males....	35	3	1	2	5	2	3	4	3	6	3	2	1	..
	Females.	43	5	2	2	2	5	3	3	8	2	5	2	4	..
Allegan.....	Total....	615	32	36	50	46	65	51	63	65	65	53	43	46	..
	Males....	299	20	15	29	19	31	26	31	28	34	28	16	22	..
	Females.	316	12	21	21	27	34	25	32	37	31	25	27	24	..
Alpena.....	Total....	425	33	34	41	40	42	40	24	38	22	37	36	38	..
	Males....	201	14	16	23	19	16	19	13	13	15	18	18	17	..
	Females.	224	19	18	18	21	26	21	11	25	7	19	18	21	..
Antrim.....	Total....	282	19	18	31	23	20	23	25	29	21	27	25	21	..
	Males....	146	9	12	14	12	6	14	14	15	11	16	16	7	..
	Females.	136	10	6	17	11	14	9	11	14	10	11	9	14	..
Arenac.....	Total....	182	10	21	17	22	16	7	14	20	12	14	12	17	..
	Males....	86	5	9	10	11	4	1	8	9	6	7	8	8	..
	Females.	96	5	12	7	11	12	6	6	11	6	7	4	9	..
Baraga.....	Total....	75	4	8	11	8	8	1	8	3	6	6	4	8	..
	Males....	45	2	4	7	7	4	1	4	3	3	4	3	3	..
	Females.	30	2	4	4	1	4	.....	4	.....	3	2	1	5	..
Barry.....	Total....	291	18	18	24	30	23	27	22	20	27	23	30	29	..
	Males....	144	13	4	7	18	12	13	10	10	14	11	14	18	..
	Females.	147	5	14	17	12	11	14	12	10	13	12	16	11	..
Bay.....	Total....	1,516	127	97	144	133	130	132	129	135	114	127	126	122	..
	Males....	791	68	50	77	63	69	64	73	69	57	64	70	67	..
	Females.	725	59	47	67	70	61	68	56	66	57	63	56	55	..
Benzie.....	Total....	219	24	19	20	17	17	21	15	11	21	20	18	16	..
	Males....	115	15	11	8	9	7	10	8	8	9	6	12	11	..
	Females.	104	9	8	12	8	10	11	7	2	12	14	6	5	..
Berrien.....	Total....	570	27	48	68	46	59	51	58	48	47	35	41	42	..
	Males....	289	16	24	35	21	26	32	25	28	29	17	15	21	..
	Females.	281	11	24	33	25	33	19	33	20	18	18	26	21	..
Branch.....	Total....	385	31	21	34	32	43	24	37	33	32	30	26	42	..
	Males....	195	13	10	21	17	21	17	17	23	16	12	11	17	..
	Females.	190	18	11	13	15	22	7	20	10	16	18	15	25	..
Calhoun.....	Total....	658	53	49	54	55	44	57	58	60	55	58	54	60	1
	Males....	317	25	23	27	28	27	21	29	29	25	25	32	26	..
	Females.	341	28	26	27	27	17	36	29	31	30	33	22	34	1
Cass.....	Total....	238	15	22	18	10	13	17	32	24	26	23	22	16	..
	Males....	123	3	11	9	4	8	10	19	15	11	10	11	12	..
	Females.	115	12	11	9	6	5	7	13	9	15	13	11	4	..
Charlevoix...	Total....	259	18	13	21	21	25	25	27	32	18	27	12	20	..
	Males....	140	7	7	11	9	18	17	15	15	12	14	4	11	..
	Females.	119	11	6	10	12	7	8	12	17	6	13	8	9	..
Cheboygan...	Total....	333	24	26	29	34	30	28	32	28	37	20	21	23	1
	Males....	178	12	14	19	20	13	14	15	15	21	11	12	12	..
	Females.	155	12	12	10	14	17	14	17	13	16	9	9	11	1

Table I.—Continued.—Births in Michigan, by months, counties and sex, 1902.

State and counties.	Sex.	Year, 1902.	Months, 1902.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Chippewa....	Total....	391	18	30	36	37	19	33	46	37	32	24	44	35	..
	Males....	209	12	18	16	24	7	13	22	21	15	15	25	21	..
	Females.	182	6	12	20	13	12	20	24	16	17	9	19	14	..
Clare.....	Total....	166	10	9	13	16	18	19	16	19	11	16	7	12	..
	Males....	75	5	4	6	8	6	7	9	10	5	7	2	6	..
	Females.	91	5	5	7	8	12	12	7	9	6	9	5	6	..
Clinton.....	Total....	383	22	30	30	23	48	29	21	38	39	38	38	27	..
	Males....	189	13	16	11	13	20	15	13	16	24	14	21	13	..
	Females.	194	9	14	19	10	28	14	8	22	15	24	17	14	..
Crawford....	Total....	55	4	2	1	2	4	8	3	8	10	5	6	2	..
	Males....	24	1	1	1	2	3	3	.....	2	3	4	3	1	..
	Females.	31	3	1	.....	.....	1	5	3	6	7	1	3	1	..
Delta.....	Total....	592	32	32	58	49	49	54	58	57	55	43	59	46	..
	Males....	327	19	16	33	34	31	24	31	28	28	25	33	25	..
	Females.	263	13	16	25	15	18	30	27	28	26	18	26	21	..
	Unk.....	2	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	..
Dickinson...	Total....	634	46	42	67	44	54	55	43	52	61	67	50	53	..
	Males....	315	23	20	34	13	28	22	26	26	36	35	32	20	..
	Females.	319	23	22	33	31	26	33	17	26	25	32	18	33	..
Eaton.....	Total....	401	29	25	38	36	36	34	32	42	38	29	31	31	..
	Males....	218	17	12	19	21	20	19	11	19	22	25	13	20	..
	Females.	183	12	13	19	15	16	15	21	23	16	4	18	11	..
Emmet.....	Total....	288	10	20	25	24	34	30	26	21	33	26	21	18	..
	Males....	150	6	8	10	12	21	13	11	14	16	18	11	10	..
	Females.	137	4	12	15	12	12	17	15	7	17	8	10	8	..
	Unk.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	..
Genesee.....	Total....	567	45	38	39	39	47	53	56	50	49	43	64	44	..
	Males....	302	22	23	20	22	20	34	30	31	23	25	30	22	..
	Females.	264	23	15	19	17	26	19	26	19	26	18	34	22	..
	Unk.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	..
Gladwin.....	Total....	129	2	8	9	8	13	17	11	8	11	12	16	14	..
	Males....	60	1	2	5	2	9	6	5	3	8	6	6	7	..
	Females.	69	1	6	4	6	4	11	6	5	3	6	10	7	..
Gogebic.....	Total....	447	23	37	45	27	32	37	43	35	34	36	47	51	..
	Males....	223	11	16	25	12	17	15	28	16	14	19	25	25	..
	Females.	224	12	21	20	15	15	22	15	19	20	17	22	26	..
G'd Traverse	Total....	289	21	18	26	26	32	33	29	20	26	29	12	17	..
	Males....	152	10	12	10	19	11	19	17	12	14	17	3	8	..
	Females.	137	11	6	16	7	21	14	12	8	12	12	9	9	..
Gratiot.....	Total....	469	39	31	29	51	50	32	46	38	44	45	33	31	..
	Males....	246	22	14	14	19	29	14	26	19	26	26	20	17	..
	Females.	221	17	17	15	31	20	18	20	19	18	19	13	14	..
	Unk.....	2	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	..
Hillsdale....	Total....	340	24	21	31	31	34	25	27	30	34	29	25	29	[illegible]
	Males....	171	12	11	14	17	16	10	14	17	16	13	14	17	..
	Females.	169	12	10	17	14	18	15	13	13	18	16	11	12	..
Houghton...	Total....	2,612	206	186	241	258	175	207	214	230	215	229	180	269	2
	Males....	1,396	119	82	132	135	101	104	120	128	113	120	90	151	1
	Females.	1,214	87	104	109	123	74	103	94	102	101	109	90	117	1
	Unk.....	2	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	..
Huron.....	Total....	732	46	56	59	63	74	66	54	72	59	71	55	[illegible]	..
	Males....	360	18	26	39	28	32	28	24	[illegible]	23	47	29	[illegible]	..
	Females.	369	27	30	20	35	42	38	[illegible]						
	Unk.....	3	1	.....	.....	.....	.....	.....							
Ingham.....	Total....	475	27	23	35	35	[illegible]								
	Males....	231	13	7	19	17									
	Females.	239	14	16	15	[illegible]									
	Unk.....	5	.....	.....	[illegible]										

Table I.—Continued.—Births in Michigan, by months, counties and sex. 1902.

State and counties.	Sex.	Year, 1902.	Months, 1902.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Ionia	Total	455	32	35	32	41	32	57	35	48	36	34	36	37	..
	Males	222	18	18	18	18	14	23	22	19	19	15	20	18	..
	Females	233	14	17	14	23	18	34	13	29	17	19	16	19	..
Iosco	Total	223	14	24	11	16	22	34	19	24	11	18	12	18	..
	Males	105	8	10	6	7	11	15	4	12	8	9	7	8	..
	Females	118	6	14	5	9	11	19	15	12	3	9	5	10	..
Iron	Total	266	18	14	19	21	36	17	22	33	18	22	20	24	2
	Males	155	10	6	12	15	17	11	11	22	10	16	11	13	1
	Females	110	8	8	7	6	19	6	11	11	8	6	9	11	..
	Unk	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Isabella	Total	444	20	22	27	38	35	43	51	51	43	55	29	30	..
	Males	238	11	8	12	26	20	28	31	26	22	25	18	11	..
	Females	206	9	14	15	12	15	15	20	25	21	30	11	19	..
Jackson	Total	797	59	58	66	61	67	61	72	72	82	79	58	62	..
	Males	390	34	28	29	26	34	31	35	39	44	42	28	20	..
	Females	407	25	30	37	35	33	30	37	33	38	37	30	42	..
Kalamazoo	Total	515	32	34	29	39	45	44	63	53	55	47	35	38	1
	Males	270	17	17	14	26	27	23	36	25	27	23	15	19	1
	Females	244	15	17	15	12	18	21	27	28	28	24	20	19	..
	Unk	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	..
Kalkaska	Total	87	8	1	6	5	6	9	10	9	9	8	7	9	..
	Males	42	6	1	3	2	2	3	5	4	3	4	3	6	..
	Females	45	2	.....	3	3	4	6	5	5	6	4	4	3	..
Kent	Total	1,938	111	145	146	124	163	158	182	185	164	193	188	174	5
	Males	1,017	57	76	93	51	80	86	86	98	87	103	110	89	1
	Females	917	54	68	53	73	83	72	96	87	77	90	77	85	2
	Unk	4	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	2
Keweenaw	Total	117	12	10	9	7	9	10	11	12	10	9	9	9	..
	Males	61	7	6	5	2	6	5	7	3	7	3	5	5	..
	Females	56	5	4	4	5	3	5	4	9	3	6	4	4	..
Lake	Total	99	9	5	9	9	3	10	11	6	15	6	7	9	..
	Males	55	5	3	5	5	3	5	5	4	10	1	4	5	..
	Females	43	4	2	4	4	.....	5	6	2	5	5	3	3	..
	Unk	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	..
Lapeer	Total	382	18	25	29	16	38	35	42	44	31	37	32	35	..
	Males	193	10	12	16	6	19	13	24	26	18	16	16	17	..
	Females	189	8	13	13	10	19	22	18	18	13	21	16	18	..
Leelanau	Total	226	19	15	25	14	27	9	24	14	22	22	11	24	..
	Males	113	11	7	9	8	14	4	12	8	12	9	6	13	..
	Females	113	8	8	16	6	13	5	12	6	10	13	5	11	..
Lenawee	Total	543	38	45	34	46	56	47	61	54	35	38	43	46	..
	Males	292	10	21	17	22	24	29	39	35	21	18	25	31	..
	Females	251	28	24	17	24	32	18	22	19	14	20	18	15	..
Livingston	Total	226	7	12	15	21	23	20	21	24	18	21	20	23	1
	Males	122	5	7	7	14	12	12	12	14	8	7	12	11	1
	Females	104	2	5	8	7	11	8	9	10	10	14	8	12	..
Luce	Total	27	1	.....	3	1	1	2	3	2	2	4	6	2	..
	Males	13	1	.....	.....	.....	1	.....	2	2	1	2	4	.....	..
	Females	14	.....	.....	3	1	.....	2	1	.....	1	2	2	2	..
Mackinac	Total	92	2	6	6	6	8	12	16	9	6	6	6	9	..
	Males	54	2	5	4	6	4	6	9	3	5	2	4	4	..
	Females	38	.....	1	2	.....	4	6	7	6	1	4	2	5	..
Macomb	Total	517	56	45	41	33	41	51	29	61	36	36	40	48	..
	Males	263	31	28	19	18	27	25	13	29	18	17	14	24	..
	Females	254	25	17	22	15	14	26	16	32	18	19	26	24	..

Table I.—Continued.—Births in Michigan, by months, counties and sex, 1902.

State and counties.	Sex.	Year, 1902.	Months, 1902.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Manistee....	Total....	628	51	39	42	48	59	51	55	56	53	47	63	64	..
	Males....	302	26	15	17	24	25	25	21	27	28	27	31	36	..
	Females.	325	25	24	25	24	34	26	33	29	25	20	32	28	..
	Unk.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	..
Marquette...	Total....	1,336	112	98	128	103	104	72	124	122	135	103	116	118	1
	Males....	680	67	52	62	44	50	31	72	60	74	52	59	56	1
	Females.	656	45	46	66	59	54	41	52	62	61	51	57	62	..
Mason.....	Total....	377	24	16	38	30	22	40	36	33	32	34	31	40	1
	Males....	192	10	9	15	20	15	22	17	10	12	22	17	23	..
	Females.	185	14	7	23	10	7	18	19	23	20	12	14	17	1
Mecosta.....	Total....	325	12	19	31	24	44	21	32	36	32	25	29	19	1
	Males....	155	2	7	15	14	24	13	15	18	12	13	9	13	..
	Females.	169	9	12	16	10	20	8	17	18	20	12	20	6	1
	Unk.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..
Menominee..	Total....	644	52	51	70	71	59	58	50	45	50	47	45	46	..
	Males....	360	33	30	32	37	36	32	31	25	27	22	30	25	..
	Females.	284	19	21	38	34	23	26	19	20	23	25	15	21	..
Midland.....	Total....	306	18	18	17	21	29	30	24	34	34	24	27	30	..
	Males....	193	15	10	12	9	21	19	14	20	21	14	16	22	..
	Females.	113	3	8	5	12	8	11	10	14	13	10	11	8	..
Missaukee...	Total....	198	14	7	15	21	19	21	14	14	20	19	13	21	..
	Males....	90	8	3	7	7	9	10	7	7	7	9	5	11	..
	Females.	108	6	4	8	14	10	11	7	7	13	10	8	10	..
Monroe.....	Total....	573	36	32	48	44	49	48	49	61	55	56	42	53	..
	Males....	288	22	20	26	23	17	24	24	28	27	35	22	20	..
	Females.	280	14	12	21	20	32	24	25	32	28	21	19	32	..
	Unk.....	5	.....	.....	1	1	.....	.....	.....	1	.....	.....	1	1	..
Montcalm...	Total....	427	30	30	35	47	30	48	42	40	40	27	36	22	..
	Males....	229	18	15	20	29	11	28	26	22	20	13	19	8	..
	Females.	198	12	15	15	18	19	20	16	18	20	14	17	14	..
Montmor'ncy	Total....	76	8	1	5	10	7	10	6	7	4	4	8	4	2
	Males....	45	3	1	2	6	5	6	5	3	3	3	3	3	2
	Females.	30	5	.....	3	4	2	4	1	4	1	1	4	1	..
	Unk.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	..
Muskegon....	Total....	652	44	43	56	57	49	57	52	61	45	61	59	67	1
	Males....	333	27	22	34	29	25	23	27	36	26	34	23	27	..
	Females.	319	17	21	22	28	24	34	25	25	19	27	36	40	1
Newaygo....	Total...	221	12	11	23	18	17	26	21	19	25	17	13	18	1
	Males....	110	9	5	14	9	8	12	9	6	13	8	5	11	..
	Females.	111	3	6	9	9	9	14	12	13	12	9	8	7	1
Oakland.....	Total....	512	34	25	30	39	56	53	61	53	33	47	40	41	..
	Males....	282	17	13	12	22	31	29	38	34	13	28	24	21	..
	Females.	230	17	12	18	17	25	24	23	19	20	19	16	20	..
Oceana.....	Total....	276	11	17	24	27	21	29	20	22	36	27	24	17	1
	Males....	128	5	8	11	10	11	17	7	12	17	13	12	5	..
	Females.	145	6	9	13	17	10	12	13	10	18	14	11	12	1
	Unk.....	3	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	..
Ogemaw.....	Total....	137	9	10	10	25	17	14	7	7	9	11	14	3	1
	Males....	49	2	1	3	8	8	2	3	3	4	5	8	2	..
	Females.	88	7	9	7	17	9	12	4	4	5	6	6	1	1
Ontonagon...	Total....	206	20	7	19	18	24	26	14	20	13	17	15	13	..
	Males....	108	12	3	12	5	13	13	6	15	8	8	4	9	..
	Females.	98	8	4	7	13	11	13	8	5	5	9	11	4	..
Osceola.....	Total....	343	15	34	26	25	30	32	30	36	37	29	26	23	..
	Males....	171	6	19	12	9	17	18	18	18	15	12	12	15	..
	Females.	172	9	15	14	16	13	14	12	18	22	17	14	8	..

Table I.—Concluded.—Births in Michigan, by months, counties and sex, 1902.

State and counties.	Sex.	Year, 1902.	Months, 1902.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Oscoda	Total	29	2	1	2	4	2	3	2	6	2	1	1	3	..
	Males	15	2	1	1	2	1	1	.....	2	2	.....	.....	3	..
	Females	14	.....	.....	1	2	1	2	2	4	.....	1	1	.....	..
Otsego	Total	148	14	13	13	9	13	9	13	20	15	7	11	11	..
	Males	76	7	8	10	3	8	2	6	13	9	1	5	4	..
	Females	72	7	5	3	6	5	7	7	7	6	6	6	7	..
Ottawa	Total	771	56	58	53	77	63	61	83	63	63	59	69	66	..
	Males	391	32	28	28	38	27	37	39	34	28	29	36	35	..
	Females	380	24	30	25	39	36	24	44	29	35	30	33	31	..
Presque Isle	Total	204	11	14	19	22	16	20	16	15	19	27	15	10	..
	Males	99	7	8	9	11	10	11	9	7	7	13	5	2	..
	Females	105	4	6	10	11	6	9	7	8	12	14	10	8	..
Roscommon	Total	29	2	2	1	.....	4	3	.....	4	2	4	4	3	..
	Males	19	2	2	1	.....	2	2	.....	2	2	2	1	3	..
	Females	10	.....	.....	.....	.....	2	1	.....	2	.....	2	3	.....	..
Saginaw	Total	1,814	174	132	135	117	148	157	149	162	154	160	136	190	..
	Males	926	86	65	62	69	87	83	74	80	80	83	63	94	..
	Females	888	88	67	73	48	61	74	75	82	74	77	73	96	..
St. Clair	Total	825	53	65	51	58	63	65	79	78	76	72	77	87	1
	Males	440	30	40	25	37	35	38	33	37	45	41	40	38	1
	Females	382	23	24	26	20	28	27	46	41	31	31	37	48	..
	Unk.	3	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	1	..
St. Joseph	Total	310	27	21	22	28	24	15	26	31	36	32	19	29	..
	Males	171	19	11	13	20	15	8	13	12	20	12	13	15	..
	Females	139	8	10	9	8	9	7	13	19	16	20	6	14	..
Sanilac	Total	773	54	49	62	62	78	58	72	71	75	76	58	58	..
	Males	416	26	23	33	34	44	37	37	47	33	41	30	31	..
	Females	357	28	26	29	28	34	21	35	24	42	35	28	27	..
Schoolcraft	Total	160	16	11	14	15	13	9	20	13	8	13	12	16	..
	Males	86	10	5	5	9	6	5	10	6	5	9	6	10	..
	Females	74	6	6	9	6	7	4	10	7	3	4	6	6	..
Shiawassee	Total	421	38	42	30	38	40	32	34	27	33	35	28	43	1
	Males	236	16	28	18	24	23	21	16	15	16	25	13	20	1
	Females	184	22	14	12	14	17	11	18	12	17	10	15	22	..
	Unk.	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	..
Tuscola	Total	592	18	46	60	34	61	65	68	51	62	55	36	36	..
	Males	297	9	20	29	18	29	33	36	30	31	26	17	19	..
	Females	293	9	26	31	16	30	32	32	21	31	29	19	17	..
	Unk.	2	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	..
Van Buren	Total	366	15	31	32	30	31	25	26	35	29	32	49	30	1
	Males	194	9	12	17	17	19	14	16	15	14	12	28	20	1
	Females	171	6	18	15	13	12	11	10	20	15	20	21	10	..
	Unk.	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..
Washtenaw	Total	518	44	27	52	36	38	36	32	45	55	52	47	53	1
	Males	250	21	14	24	18	19	20	16	21	27	25	24	20	1
	Females	266	23	13	28	17	19	16	16	24	27	27	23	33	..
	Unk.	2	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	..
Wayne	Total	8,880	671	666	823	685	706	652	786	752	749	713	777	891	9
	Males	4,582	333	372	409	361	368	324	425	384	374	348	412	468	4
	Females	4,293	338	293	412	323	338	328	361	368	374	365	365	423	5
	Unk.	5	.....	1	2	1	.....	.....	.....	.....	1	.....	.....	.....	..
Wexford	Total	313	12	21	26	26	29	25	27	36	28	25	26	32	..
	Males	158	4	12	8	14	13	12	14	21	13	11	13	23	..
	Females	152	8	9	17	12	16	13	13	15	14	14	12	9	..
	Unk.	3	.....	.....	1	.....	.....	.....	.....	.....	1	.....	1	.....	..

Table II.—Births in Michigan, by nativity of parents, counties and sex, as enumerated by supervisors and assessors for the year 1902. (Stillbirths included.)

State and counties.	Sex.	Children born in 1902.	Nativity of parents of children born in 1902.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father. Native.	Mother unknown. Father. Foreign.	Father unknown. Mother. Native.	Father unknown. Mother. Foreign.	Both unknown.
STATE	Total	45,546	22,001	13,942	5,492	3,249	115	86	198	51	412
	Males	23,484	11,441	7,150	2,801	1,637	61	42	99	22	231
	Females	22,011	10,535	6,785	2,686	1,607	53	44	99	28	174
	Unk	51	25	7	5	5	1	.....	.....	1	7
Alcona	Total	106	30	44	18	13	.....	.....	1	.....	....
	Males	56	16	21	12	7	.....	.....	.....	.....	....
	Females	50	14	23	6	6	.....	.....	1	.....	....
Alger	Total	78	37	29	7	5	.....	.....	.....	.....	....
	Males	35	18	11	3	3	.....	.....	.....	.....	....
	Females	43	19	18	4	2	.....	.....	.....	.....	....
Allegan	Total	615	497	41	41	30	1	.....	4	.....	1
	Males	299	240	18	21	18	.....	.....	1	.....	1
	Females	316	257	23	20	12	1	.....	3	.....	....
Alpena	Total	425	87	200	80	57	.....	.....	1	.....	....
	Males	201	42	98	36	24	.....	.....	1	.....	....
	Females	224	45	102	44	33	.....	.....	.....	.....	....
Antrim	Total	282	162	55	47	13	2	.....	3	.....	....
	Males	146	80	29	26	10	.....	.....	1	.....	....
	Females	136	82	26	21	3	2	.....	2	.....	....
Arenac	Total	182	73	44	38	12	9	4	1	.....	1
	Males	86	32	18	19	7	5	3	1	.....	1
	Females	96	41	26	19	5	4	1	.....	.....	....
Baraga	Total	75	22	34	16	3	.....	.....	.....	.....	....
	Males	45	14	22	8	1	.....	.....	.....	.....	....
	Females	30	8	12	8	2	.....	.....	.....	.....	....
Barry	Total	291	261	7	14	7	.....	.....	2	.....	....
	Males	144	128	5	7	3	.....	.....	1	.....	....
	Females	147	133	2	7	4	.....	.....	1	.....	....
Bay	Total	1,516	559	576	236	141	1	.....	2	.....	1
	Males	791	294	292	125	76	1	.....	2	.....	1
	Females	725	265	284	111	65	.....	.....	.....	.....	....
Benzie	Total	219	145	31	28	10	2	.....	2	1	....
	Males	115	70	23	16	4	1	.....	1	.....	....
	Females	104	75	8	12	6	1	.....	1	1	....
Berrien	Total	570	376	109	40	26	9	4	2	1	3
	Males	289	195	50	21	14	2	2	2	.....	3
	Females	281	181	59	19	12	7	2	.....	1	....
Branch	Total	385	328	15	19	13	.....	.....	.....	.....	10
	Males	195	159	10	11	7	.....	.....	.....	.....	8
	Females	190	169	5	8	6	.....	.....	.....	.....	2
Calhoun	Total	658	543	37	39	25	1	.....	5	2	6
	Males	317	256	23	18	13	1	.....	1	2	3
	Females	341	287	14	21	12	.....	.....	4	.....	3
Cass	Total	238	222	1	10	3	.....	.....	1	.....	1
	Males	123	111	1	7	2	.....	.....	1	.....	1
	Females	115	111	.....	3	1	.....	.....	.....	.....	....
Charlevoix	Total	259	158	28	40	27	3	.....	1	1	1
	Males	140	89	13	22	14	2	.....	.....	.....	....
	Females	119	69	15	18	13	1	.....	1	1	1

					…known.		
					…ther.		Both unknown.
					…ive.	Foreign.	
					1		2
					1		
							2
						2	
						2	
					3		1
					2		
					1		1
			[illegible]	37	3	2	14
			[illegible]	17		2	10
			[illegible]	20	3		4
					1		
					1		
		26	1		2		
		18	1		1		
		8			1		
		30	2		2	1	
		18	1		1		
		12	1		1	1	
	[illegible]	10			1		
	11	7					
	12	3			1		
	26	13		4		1	
	15	6		4			
	11	7				1	
	30	24			5		
	17	10			3		
	13	14			2		
	26	14	2		3		1
	14	7			1		
	12	7	2		2		1
4	10	7	6		5		3
	5	1	4		2		1
4	5	6	2		3		2

Table II.—Continued.—Births by counties, parent nativity and sex, 1902

State and counties.	Sex.	Children born in 1902.	Nativity of parents of children born in 1902.							
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown.		Father unk	
							Father.		Mothe	
							Native.	Foreign.	Native.	I
Houghton	Total	2,612	441	1,704	342	93	1	9	5	
	Males	1,396	231	909	187	52	1	3	3	
	Females	1,214	210	794	155	41	.....	6	2	
	Unk	2	.....	1	.....	.....	.....	.....	.....	
Huron	Total	732	248	249	143	89	.....	.....	3	
	Males	360	114	124	81	39	.....	.....	2	
	Females	369	133	124	62	49	.....	.....	1	
	Unk	3	1	1	.....	1	.....	.....	.....	
Ingham	Total	475	346	66	22	32	2	1	.....	
	Males	231	172	31	6	17	1	1	.....	
	Females	239	172	34	15	15	.....	.....	.....	
	Unk	5	2	1	1	.....	1	.....	.....	
Ionia	Total	455	388	20	29	15	.....	.....	2	
	Males	222	187	13	14	7	.....	.....	1	
	Females	233	201	7	15	8	.....	.....	1	
Iosco	Total	223	84	71	41	25	.....	.....	2	
	Males	105	40	29	20	14	.....	.....	2	
	Females	118	44	42	21	11	.....	.....	.....	
Iron	Total	266	33	187	18	9	1	.....	.....	
	Males	155	24	103	11	6	.....	.....	.....	
	Females	110	9	84	7	3	1	.....	.....	
	Unk	1	.....	.....	.....	.....	.....	.....	.....	
Isabella	Total	444	297	55	57	35	.....	.....	.....	
	Males	238	166	31	29	12	.....	.....	.....	
	Females	206	131	24	28	23	.....	.....	.....	
Jackson	Total	797	552	98	54	38	7	.....	11	
	Males	390	285	44	21	12	3	.....	6	
	Females	407	267	54	33	26	4	.....	5	
Kalamazoo	Total	515	349	88	27	42	3	1	3	
	Males	270	188	47	12	22	1	.....	.....	
	Females	244	160	41	15	20	2	1	3	
	Unk	1	1	.....	.....	.....	.....	.....	.....	
Kalkaska	Total	87	66	7	9	5	.....	.....	.....	
	Males	42	30	6	5	1	.....	.....	.....	
	Females	45	36	1	4	4	.....	.....	.....	
Kent	Total	1,938	889	633	225	157	5	3	16	
	Males	1,017	485	310	118	88	4	2	6	
	Females	917	402	322	107	69	1	1	10	
	Unk	4	2	1	.....	.....	.....	.....	.....	
Keweenaw	Total	117	16	79	14	8	.....	.....	.....	
	Males	61	10	41	6	4	.....	.....	.....	
	Females	56	6	38	8	4	.....	.....	.....	
Lake	Total	99	64	7	12	11	.....	.....	2	
	Males	55	36	6	6	6	.....	.....	1	
	Females	43	27	1	6	5	.....	.....	1	
	Unk	1	1	.....	.....	.....	.....	.....	.....	
Lapeer	Total	382	251	34	60	37	.....	.....	.....	
	Males	193	127	18	28	20	.....	.....	.....	
	Females	189	124	16	32	17	.....	.....	.....	
Leelanau	Total	226	122	46	35	20	.....	.....	3	
	Males	113	66	22	12	12	.....	.....	1	
	Females	113	56	24	23	8	.....	.....	2	

Table II.—Continued.—Births by counties, parent nativity and sex, 1902.

State and counties.	Sex.	Children born in 1902.	Nativity of parents of children born in 1902.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown.		Father unknown.		Both unknown.
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Lenawee	Total	543	423	37	37	22	1		2		1
	Males	292	221	20	21	17	1		2		
	Females	251	202	17	16	15					1
Livingston	Total	236	200	9	6	10					1
	Males	122	111	3	4	3					1
	Females	104	89	6	2	7					
Luce	Total	27	5	5	6	6					
	Males	13	3	4	3	3					
	Females	14	4	6	1	3					
Mackinac	Total	92	38	28	11	6		1			8
	Males	56	24	14	8	2					8
	Females	36	14	12	3	2		1			4
Macomb	Total	547	388	37	56	36			2		2
	Males	292	216	25	27	13					
	Females	256	172	22	29	23			2		2
Manistee	Total	429	198	124	79	44		1	4	2	2
	Males	202	96	58	35	13				1	
	Females	225	102	66	44	25		1	4	1	2
	Total	1	1								
Marquette	Total	220	158	425	199	86	1	1	2	1	1
	Males	106	77	213	108	22	1		2	1	1
	Females	114	81	212	92	28		1		1	1
Mason	Total	277	173	127	55	27			2		
	Males	142	85	45	30	12			2		
	Females	135	87	42	25	15					
Mecosta	Total	225	158	35	56	26			6	1	1
	Males	118	116	23	22	15			1		1
	Females	109	101	21	22	11			5	1	
	Total	1	1								
Menominee	Total	444	177	225	92	38		1	2	1	1
	Males	208	112	125	36	13					1
	Females	236	74	101	55	25		1	2		1
Midland	Total	200	117	42	42	26		1			
	Males	102	59	20	24	14					
	Females	98	58	22	18	12					
Missaukee	Total	196	98	37	27	35					
	Males	98	47	18	13	9					
	Females	102	51	19	14	26					
Monroe	Total	571	484	17	35	31			2		
	Males	290	237	9	17	17					
	Females	268	239	8	18	14					
	Total	2	4								
Montcalm	Total	457	256	43	46	32			2		
	Males	225	147	25	19	9			2		
	Females	196	6	18	27	23					
Montmorency	Total	71	7	24	7	7			2		2
	Males	42		14	7	3					2
	Females	29	1	10	1	4					
	Total										
Muskegon	Total	1,[illegible]	6[illegible]	7[illegible]	6[illegible]	3[illegible]			2		
	Males	6[illegible]	4[illegible]	1[illegible]	3[illegible]	3[illegible]					
	Females	6[illegible]	1[illegible]	2[illegible]	3[illegible]	3[illegible]					

Table II.—Continued.—Births by counties, parent nativity and sex, 1902

State and counties.	Sex.	Children born in 1902.	Nativity of parents of children born in 1902.							
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father.		Father unk Mothe	
							Native.	Foreign.	Native.	F
Newaygo	Total	221	163	25	21	11	1	.....	.....	..
	Males	110	76	14	13	6	1	.....	.....	..
	Females	111	87	11	8	5	.....	.....	.....	..
Oakland	Total	512	339	71	47	28	1	.....	3	..
	Males	292	192	40	27	19	1	.....	2	..
	Females	220	167	31	20	9	.....	.....	1	..
Oceana	Total	276	188	34	31	18	1	.....	2	..
	Males	128	87	14	19	8	.....	.....	.....	..
	Females	145	99	20	11	10	1	.....	2	..
	Unk	3	2	.....	1	.....	.....	.....	.....	..
Ogemaw	Total	127	68	29	27	11	.....	.....	.....	..
	Males	49	24	14	11	.....	.....	.....	.....	..
	Females	88	44	15	16	11	.....	.....	.....	..
Ontonagon	Total	206	79	98	18	8	1	1	1	..
	Males	108	43	54	6	3	.....	1	1	..
	Females	98	36	44	12	5	1	.....	.....	..
Osceola	Total	343	194	42	52	26	.....	.....	2	..
	Males	171	96	21	26	15	.....	.....	1	..
	Females	172	98	21	26	11	.....	.....	1	..
Oscoda	Total	29	19	3	3	3	.....	.....	.....	..
	Males	15	9	1	2	2	.....	.....	.....	..
	Females	14	10	2	1	1	.....	.....	.....	..
Otsego	Total	148	62	52	21	13	.....	.....	.....	..
	Males	76	39	24	7	6	.....	.....	.....	..
	Females	72	23	28	14	7	.....	.....	.....	..
Ottawa	Total	771	388	175	126	77	2	1	.....	
	Males	391	192	93	62	42	1	.....	.....	
	Females	380	196	82	64	35	1	1	.....	..
Presque Isle	Total	204	94	56	43	7	.....	2	1	..
	Males	99	48	25	23	1	.....	1	.....	..
	Females	105	46	31	20	6	.....	1	1	..
Roscommon	Total	29	23	1	2	3	.....	.....	.....	..
	Males	19	17	.....	1	1	.....	.....	.....	..
	Females	10	6	1	1	2	.....	.....	.....	..
Saginaw	Total	1,814	921	389	311	193	.....	.....	.....	..
	Males	926	456	210	158	102	.....	.....	.....	..
	Females	888	465	179	153	91	.....	.....	.....	..
St. Clair	Total	825	428	172	124	96	1	.....	1	
	Males	440	239	88	59	51	1	.....	1	..
	Females	382	188	84	64	44	.....	.....	.....	
	Unk	3	1	.....	1	1	.....	.....	.....	..
St. Joseph	Total	310	272	10	13	10	4	.....	1	..
	Males	171	148	3	9	6	4	.....	1	..
	Females	139	124	7	4	4	.....	.....	.....	..
Sanilac	Total	773	275	195	198	103	.....	.....	2	..
	Males	416	154	116	84	61	.....	.....	1	..
	Females	357	121	79	114	42	.....	.....	1	..
Schoolcraft	Total	160	32	80	22	17	3	3	1	
	Males	86	21	41	10	8	2	2	1	
	Females	74	11	39	12	9	1	1	.....	..

Table II.—Concluded.—Births by counties, parent nativity and sex, 1902.

State and counties.	Sex.	Children born in 1902.	Nativity of parents of children born in 1902.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown.		Father unknown.		Both unknown.
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Shiawassee	Total	421	335	21	32	27	2	.....	3	.....	1
	Males	236	187	8	22	15	1	.....	3	.....	....
	Females	184	148	13	10	11	1	.....	.....	.....	1
	Unk	1	.....	.....	.....	1	.....	.....	.....	.....	....
Tuscola	Total	592	356	72	110	49	2	.....	2	.....	1
	Males	297	180	34	45	34	1	.....	2	.....	1
	Females	293	174	38	65	15	1	.....	.....	.....	....
	Unk	2	2	.....	.....	.....	.....	.....	.....	.....	....
Van Buren	Total	366	331	7	13	11	3	1	.....	.....	....
	Males	194	180	2	5	6	.....	1	.....	.....	....
	Females	171	151	5	8	4	3	.....	.....	.....	....
	Unk	1	.....	.....	.....	1	.....	.....	.....	.....	....
Washtenaw	Total	518	362	58	52	39	1	.....	2	1	3
	Males	250	187	23	23	14	.....	.....	2	.....	1
	Females	266	173	35	29	25	1	.....	.....	1	2
	Unk	2	2	.....	.....	.....	.....	.....	.....	.....	....
Wayne	Total	8,880	2,965	3,864	1,005	766	7	7	47	13	206
	Males	4,582	1,545	1,982	523	375	4	2	22	7	122
	Females	4,293	1,419	1,882	482	391	3	5	25	5	81
	Unk	5	1	.....	.....	.....	.....	.....	.....	1	3
Wexford	Total	313	186	60	41	22	2	.....	2	.....	....
	Males	158	95	30	23	7	2	.....	1	.....	....
	Females	152	90	29	17	15	.....	.....	1	.....	....
	Unk	3	1	1	1	.....	.....	.....	.....	.....	....

Table III.—Stillbirths, twins and illegitimate births in Michigan, by counties, as enumerated by supervisors and assessors for the year 1902. (Stillbirths included.)

State and counties.	Number of stillbirths in 1902.	Number of twins born in 1902.	Number of illegitimate children born in 1902.
STATE	575	980	383
Alcona	3	2	.....
Alger	.....	2	.....
Allegan	9	14	3
Alpena	6	16	1
Antrim	6	14	10
Arenac	12	6	1
Baraga	.....	.....	.....
Barry	12	8	1
Bay	15	34	.....
Benzie	2	2	1
Berrien	2	18	.....
Branch	8	4	6
Calhoun	3	6	5
Cass	3	4	1
Charlevoix	6	8	3
Cheboygan	4	4	1
Chippewa	5	8	4
Clare	3	6	2
Clinton	1	12	.....
Crawford	.....	.....	.....
Delta	8	12	3
Dickinson	10	10	.....
Eaton	5	4	1
Emmet	3	6	2
Genesee	13	2	3
Gladwin	4	2	1
Gogebic	9	8	1
Grand Traverse	5	12	4
Gratiot	9	4	2
Hillsdale	3	8	3
Houghton	31	36	6
Huron	8	12	4
Ingham	7	10	.....
Ionia	3	12	6
Iosco	3	4	2
Iron	4	10	.....
Isabella	7	12	1
Jackson	5	14	2
Kalamazoo	.....	6	2
Kalkaska	.....	4	.....
Kent	20	42	16
Keweenaw	6	.....	2
Lake	2	.....	6
Lapeer	7	14	.....
Leelanau	5	4	3
Lenawee	2	16	2
Livingston	6	6	.....
Luce	.....	.....	.....
Mackinac	3	2	2
Macomb	7	12	1
Manistee	11	12	3
Marquette	43	22	10
Mason	11	10	1
Mecosta	3	2	5
Menominee	9	18	3

Table III.—Concluded.—Stillbirths, twins and illegitimate births, by counties, year 1902.

State and counties.	Number of stillbirths in 1902.	Number of twins born in 1902.	Number of illegitimate children born in 1902.
Midland	4	.....	3
Missaukee	2	.....	1
Monroe	9	20	2
Montcalm	5	12	2
Montmorency	1	6	2
Muskegon	14	26	2
Newaygo	3	10	.....
Oakland	.....	18	.....
Oceana	4	12	1
Ogemaw	1	4	.....
Ontonagon	4	6	.....
Osceola	7	2	27
Oscoda	.....	2	.....
Otsego	3	2	.....
Ottawa	5	12	2
Presque Isle	5	4	2
Roscommon	.....	.....	.....
Saginaw	20	40	.....
St. Clair	.....	20	2
St. Joseph	6	4	1
Sanilac	4	12	2
Schoolcraft	.....	.....	2
Shiawassee	.....	12	2
Tuscola	8	24	3
Van Buren	9	8	1
Washtenaw	11	18	3
Wayne	70	186	184
Wexford	8	4	3

QUADRUPLETS.—There was one case of quadruplets reported in the State for the year 1902, as follows: Ontonagon county, born in October, all males, parents foreign born.

TRIPLETS.—There were six cases of triplets reported for 1902, as follows: Branch county, born in May, all females, parents both native born; Isabella county, born in August, two males and one female, foreign mother and native father; Jackson county, born in October, all males, parents both native born; Marquette county, born in December, all females, parents foreign born; Montcalm county, born in January, two males and one female, parents foreign born; Wexford county, born in July, two males and one female, foreign mother and native father.

Table IV.—Stillbirths, twins and illegitimate births in Michigan, by months and sex, as enumerated by supervisors and assessors for the year 1902; also number of stillbirths registered as deaths and returned by registrars for same year.

Condition.	Sex.	Year 1902.	Months by births, 1902.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Stillbirths... (from returns of births.)...	Total....	575	38	45	45	40	43	39	48	56	41	56	52	70	2
	Males....	319	22	32	24	20	21	20	29	35	23	32	28	32	1
	Females.	227	14	12	18	19	17	18	18	18	15	22	20	36	..
	Unk.....	29	2	1	3	1	5	1	1	3	3	2	4	2	1
Twins*.....	Total....	980	68	68	91	77	104	94	91	88	67	81	79	72	..
	Males....	503	43	30	40	46	54	46	41	50	33	39	51	30	..
	Females.	472	25	38	51	31	48	48	50	38	33	42	26	42	..
	Unk.....	5	.....	.....	.....	.....	2	.....	.....	.....	1	.....	2	.....	..
*Illegitimates..	Total....	383	21	32	37	34	24	41	38	34	27	31	35	29	..
	Males....	199	10	14	22	17	14	25	21	16	17	10	19	14	..
	Females.	184	11	18	15	17	10	16	17	18	10	21	16	15	..
Stillbirths (from returns of deaths...	Total....	1,793	159	142	158	132	142	148	137	159	158	169	123	166	..
	Males....	1,013	85	79	96	76	77	91	80	85	87	99	64	94	..
	Females.	743	71	60	61	54	62	55	56	71	67	61	58	67	..
	Unk.....	37	3	3	1	2	3	2	1	3	4	9	1	5	..

*Stillbirths included.

Table V.—Stillbirths, twins and illegitimate births in Michigan, by nativity of parents, as enumerated by supervisors and assessors for the year 1902. (Stillbirths included.)

Nativity of parents.	Number of stillborn children, 1902.				Number of twins, 1902.				Number of illegitimate children, 1902.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
All nativities.....	575	319	227	29	980	503	472	5	383	199	184	....
Both native born.....	265	143	106	16	487	251	233	3	29	17	12	....
Both foreign born.....	184	103	75	6	300	147	153	....	11	6	5	....
Foreign father and native mother.....	58	36	18	4	105	60	43	2	8	3	5	....
Foreign mother and native father.....	43	24	18	1	74	35	39	....	3	.....	3	....
Unknown mother, father native.....	3	1	2	....	2	.....	2	....	7	2	5	....
Unknown mother, father foreign.....	4	3	1	....	4	4	.....	....	3	2	1	....
Unknown father, mother native.....	5	3	2	....	4	2	2	....	118	52	66	....
Unknown father, mother foreign.....	3	1	2	....	.....	.....	.....	....	32	17	15	....
Both unknown.....	10	5	3	2	4	4	.....	....	172	100	72	....
One or both native.....	374	207	146	21	672	348	319	5	165	74	91	....
One or both foreign.....	292	167	114	1[illegible]	[illegible]	[illegible]46	235	2	57	28	29	....

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ERRATA.

In the last column of Table 29, p. 59, the per cents of deaths of *males* and *females* (not of the totals) to total deaths of each sex are incorrectly stated. Following are the correct figures: *Males:* Cancer of mouth, 4.9; cancer of stomach and liver, 51.0; cancer of intestines, 9.6; cancer of genital organs, 0.2; cancer of breast 0.3; cancer of skin, 8.8; cancer of other organs or unspecified organs, 25.2. *Females:* Cancer of mouth, 1.2; cancer of stomach and liver, 30.8; cancer of intestines, 7.7; cancer of genital organs, 23.4; cancer of breast, 14.1; cancer of skin, 2.4; cancer of other organs or unspecified organs, 20.3.

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